

HIV-1 SEROPREVALENCE AND RISK BEHAVIORS AMONG YOUNG MEN WHO HAVE SEX WITH MEN

SAN FRANCISCO/BERKELEY, CALIFORNIA, 1992-1993

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YOUNG MEN'S SURVEY TEAM AND COLLABORATORS

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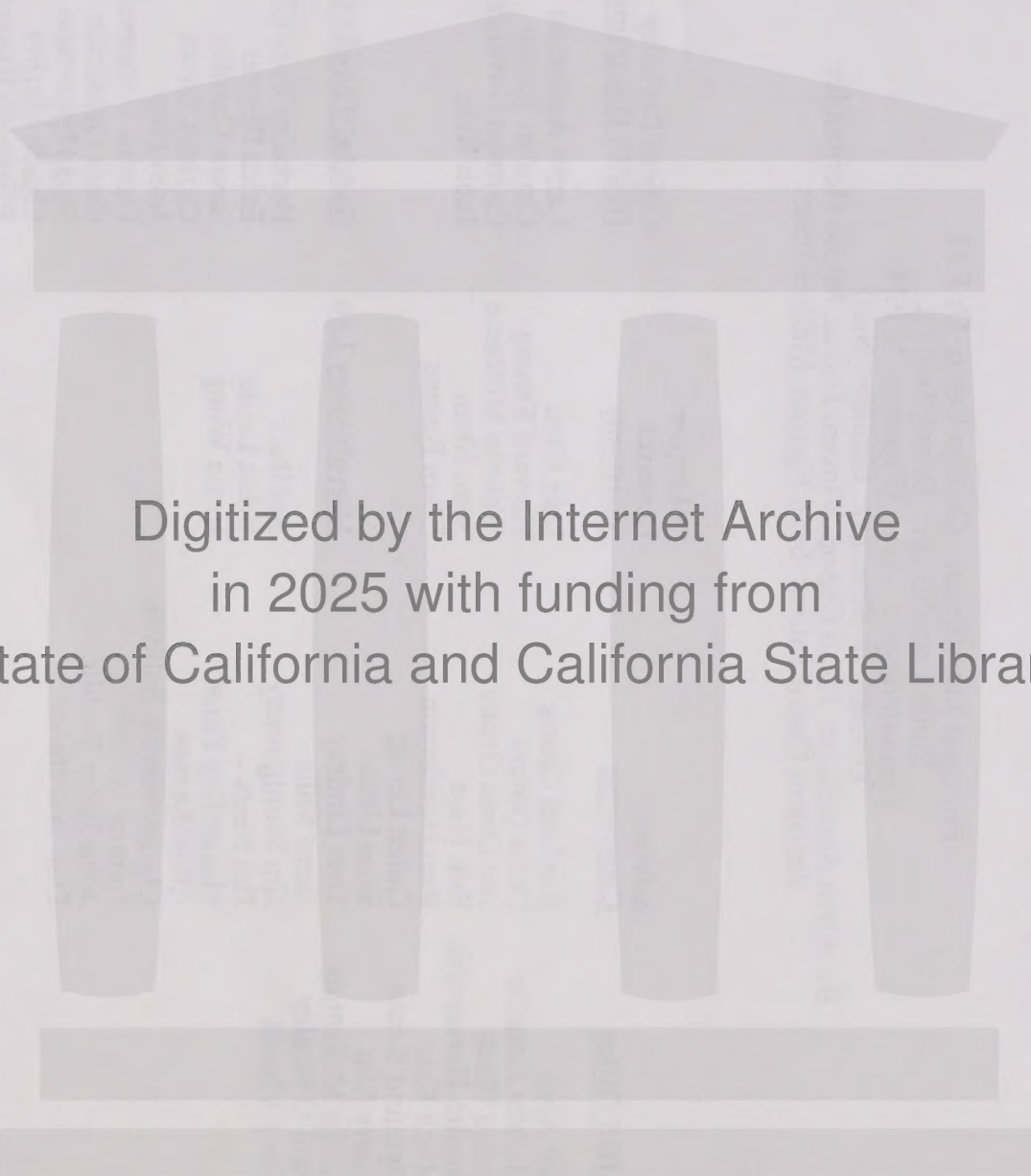
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Objectives

- To estimate the prevalence of HIV-1 infection and of markers for hepatitis B virus and syphilis among 17 to 22 year-old men who have sex with men, who frequent venues in San Francisco and Berkeley, CA and who reside in the 9-county San Francisco Bay Area.
- To estimate the level of risk behaviors in this population.
- To measure the association between HIV infection and various factors including sexual and drug use histories, HIV antibody testing history, history of STDs, and demographic characteristics.

Opisjeida

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Methods

(Continued-1)

- We surveyed 474 young men 17 to 22 years of age at 26 locations in San Francisco and Berkeley, CA during 1992 and 1993.
- Survey locations included street sites, dance clubs, bars, sex clubs, and parks identified in focus groups as sites frequented by young men who have sex with men.
- The number of persons randomly selected from each site was based on sampling with probability proportional to the volume of persons frequenting that setting in a given week.

Methods

(Continued-1)

- During field visits to each of the 26 venues, young men were randomly sampled as they walked down a preselected stretch of sidewalk or as they entered a venue or waited in line.
- Bay Area residents 17 to 22 years of age were eligible for inclusion in the survey.
- We recorded the number of persons approached, their age, race/ethnicity, county of residence, and whether they accepted or declined enrollment.
- Sixty-one percent of 778 eligible persons approached agreed to participate in the survey.

Shorts

(1-800-555-1234)

During the last 10 years of the 20th century, the number of people who have been diagnosed with AIDS has increased significantly. This is due to a variety of factors, including the spread of the HIV virus, which is the cause of AIDS. The virus is spread through sexual contact, sharing needles, and from mother to child during childbirth. The number of people who have died from AIDS has also increased significantly.

There are several ways to prevent the spread of AIDS. These include using condoms, not sharing needles, and avoiding sexual contact with someone who has AIDS. It is also important to get tested for HIV, the virus that causes AIDS. If you are tested and found to be positive, you can take medication to help control the virus and prevent it from spreading.

The Centers for Disease Control and Prevention (CDC) has developed several guidelines for people who are at risk of AIDS. These guidelines include getting tested for HIV, using condoms, and avoiding sexual contact with someone who has AIDS. The CDC also has information on how to get tested for HIV and how to get treatment if you are positive.

It is important to remember that AIDS is a preventable disease. By following the guidelines from the CDC, you can help prevent the spread of AIDS and protect your health.

Methods

(Continued-2)

- Informed consent, interview, blood draw and prevention counseling were provided in a 21-foot recreational vehicle parked near the sampling venue.
- A trained interviewer conducted a structured face-to-face interview using a standardized 87-item questionnaire.
- Interview questions included demographics, sexual and drug use histories, history of STDs, history of HIV testing, access to medical care, and beliefs and attitudes.

Abortion

(Continued)

has been found, however, that the use of RU-486 and mifepristone for the purpose of inducing abortion is not safe and effective.

There is a need for more research on the safety and effectiveness of RU-486 and mifepristone for the purpose of inducing abortion.

There is a need for more research on the safety and effectiveness of RU-486 and mifepristone for the purpose of inducing abortion.

Methods

(Continued-3)

- Specimens were tested for HIV-1, present and past syphilis infection (VDRL & MHA-TP), and markers of hepatitis B (HBsAg & HBcAb).
- A complete blood count (CBC), and tests for levels of T-lymphocytes and beta-2 microglobulin were performed for each specimen.
- Post-test results and counseling were offered two weeks after interview and blood draw.
- The analyses were limited to 425 men who reported sex with men or who self-identified as gay or bisexual.

(n=425)

abortion

(2-banishing)

1. The first trimester of pregnancy is the period from the first day of the last menstrual period to the end of the first trimester.

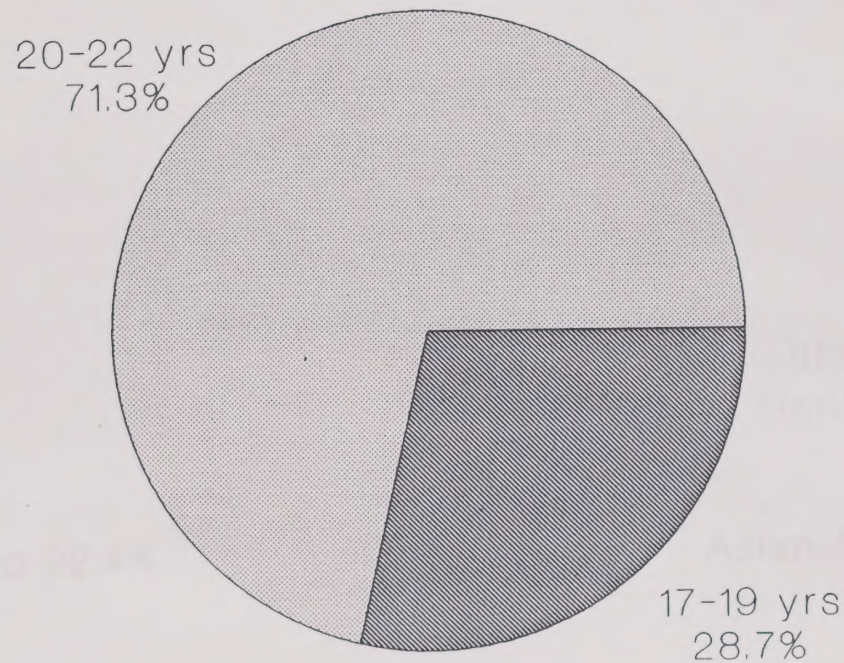
2. The second trimester is the period from the second day of the last menstrual period to the end of the second trimester.

3. The third trimester is the period from the third day of the last menstrual period to the end of the third trimester.

4. The fourth trimester is the period from the fourth day of the last menstrual period to the end of the fourth trimester.

leukemia

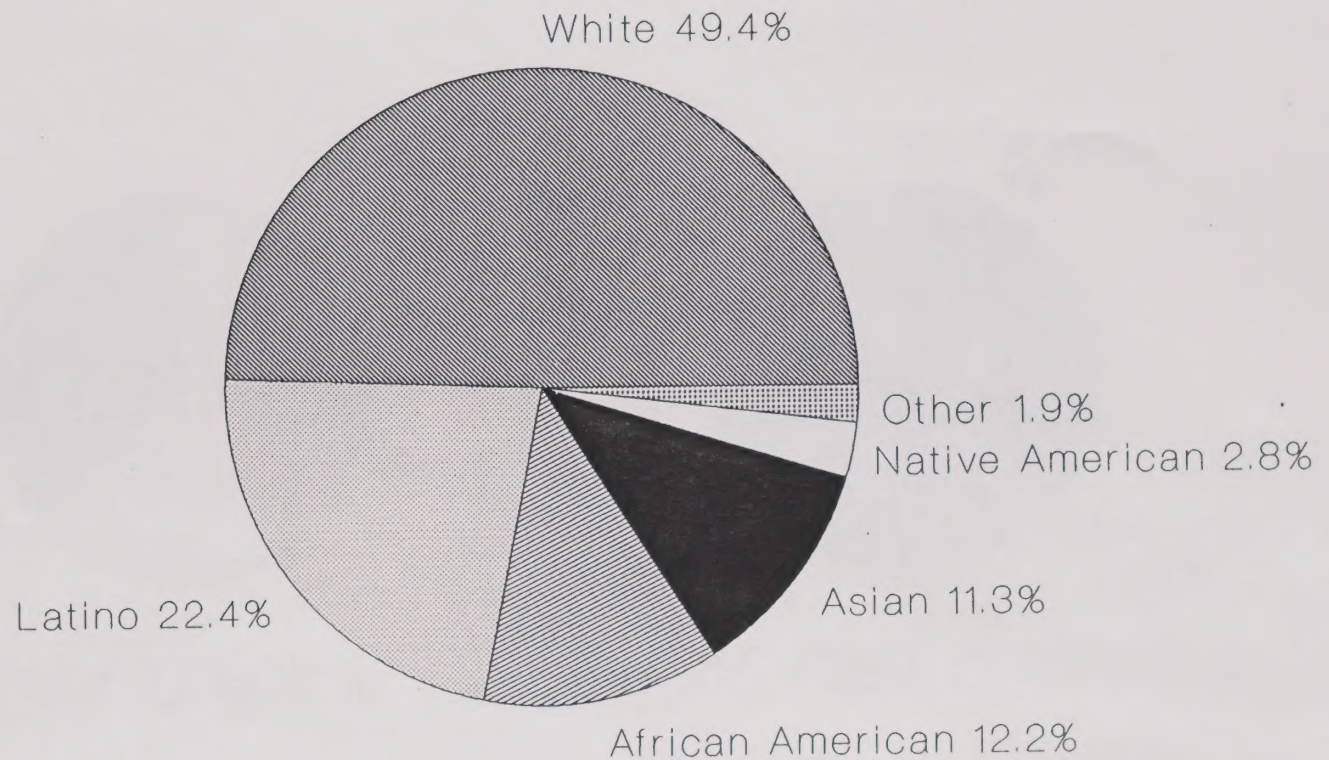
Age Group for Young Men who Have Sex with Men who Participated in the Young Men's Survey



(n=425)

San Francisco/Berkeley, 1992-93

Race/Ethnicity for Young Men who Have Sex with Men who Participated in the Young Men's Survey



(n=425)

San Francisco/Berkeley, 1992-93

(11-152)

Journal of Interpersonal Violence



Journal of Interpersonal Violence

Journal of Interpersonal Violence

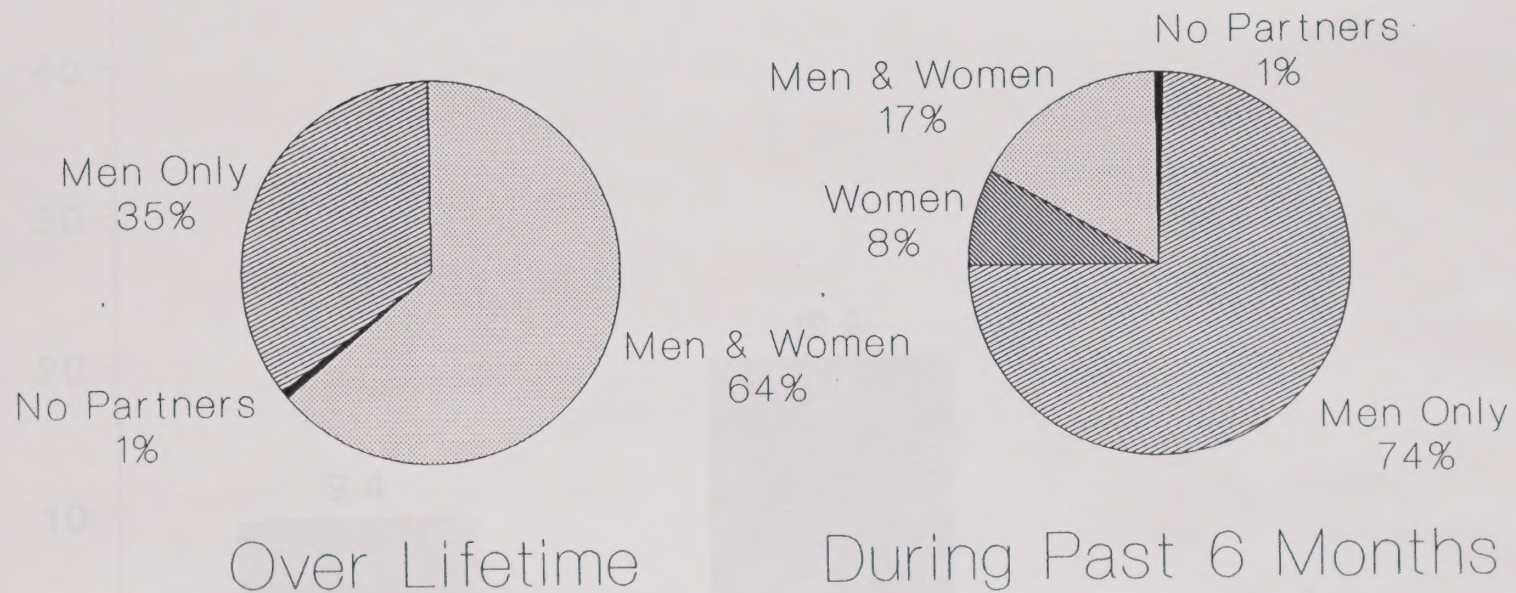
Journal of Interpersonal Violence

Journal of Interpersonal Violence

Journal of Interpersonal Violence

Journal of Interpersonal Violence

Gender of Sexual Partners Among Young Men who Have Sex with Men YMS: San Francisco/Berkeley, 1992-93



(n=425)

(U=452)

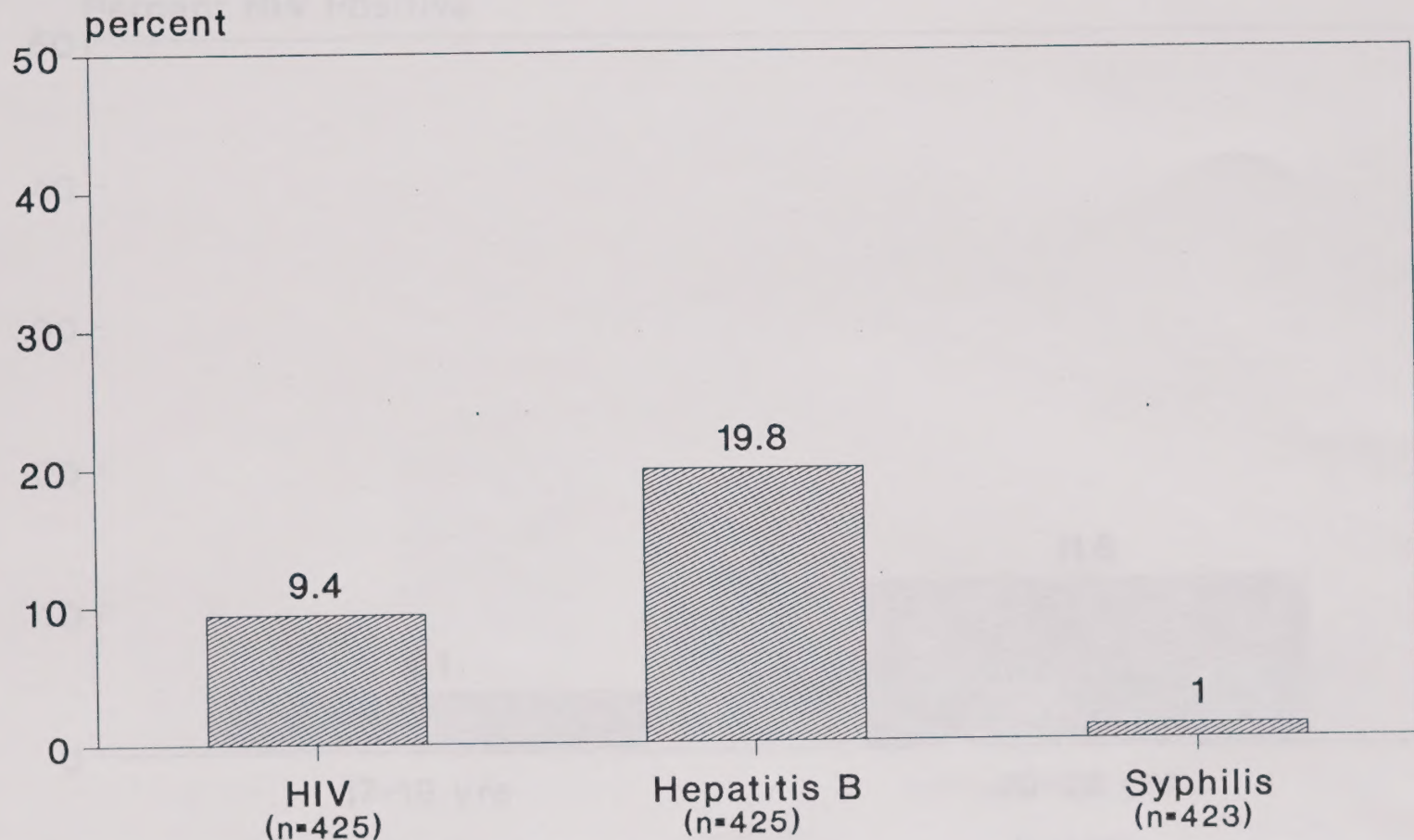
Overall mean

Overall mean



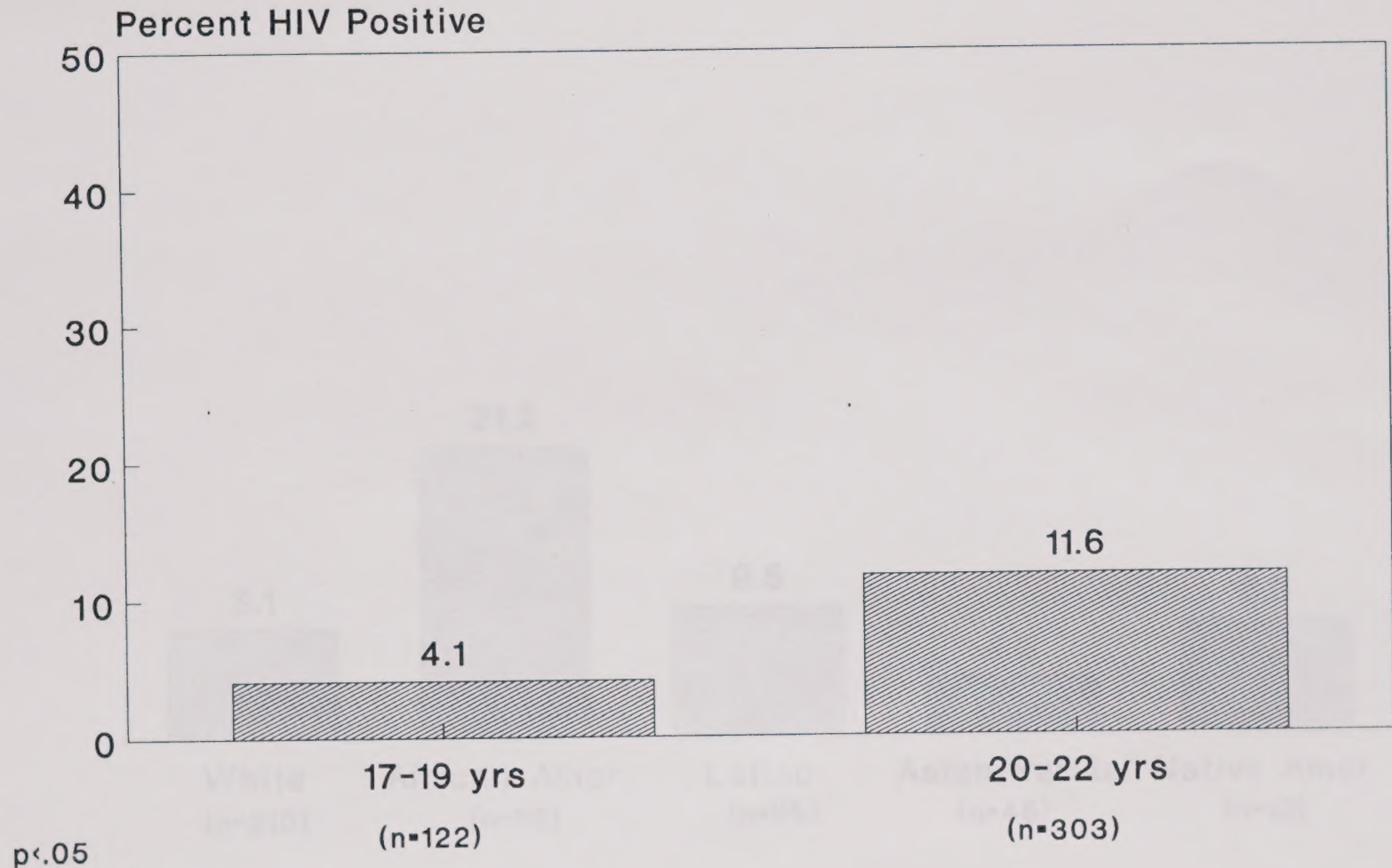
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Prevalence of HIV and Markers for Hepatitis B and Syphilis among Young Men who have Sex with Men



YMS: San Francisco/Berkeley, 1992-93

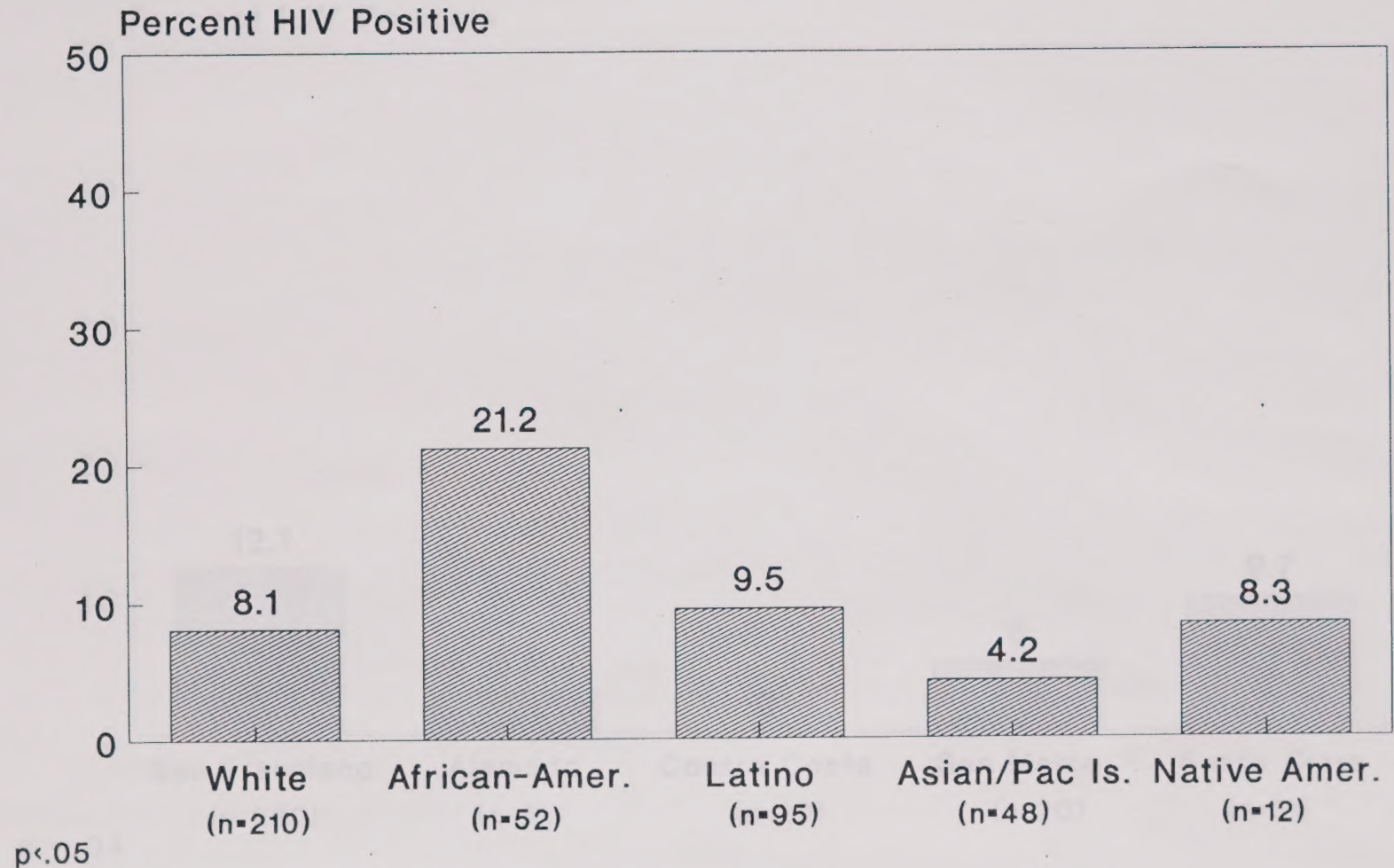
Seroprevalence of HIV by Age Group Among Young Men who Have Sex with Men YMS: San Francisco/Berkeley, 1992-93



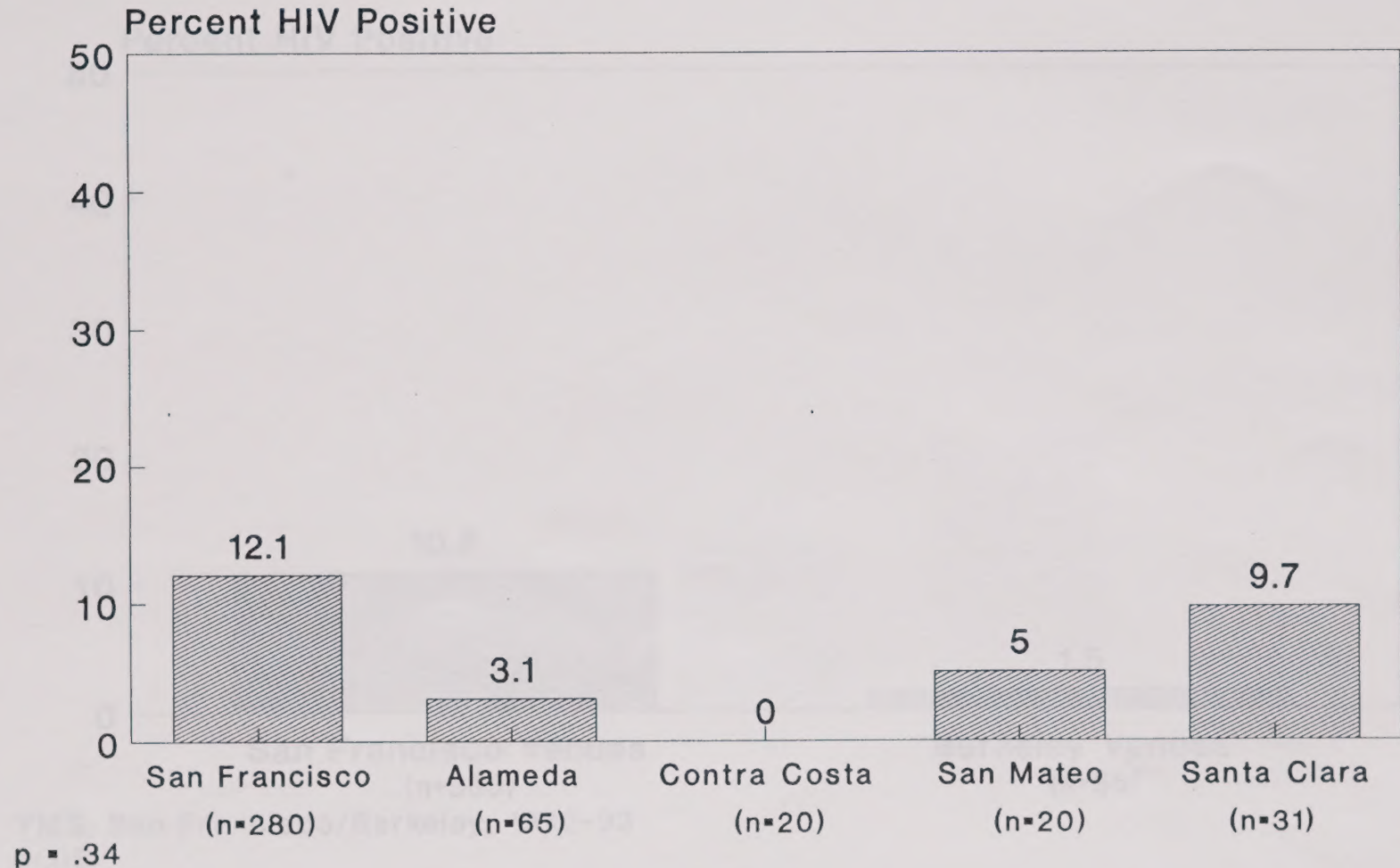
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Seroprevalence of HIV by Race/Ethnicity Among Young Men who Have Sex with Men YMS: San Francisco/Berkeley, 1992-93

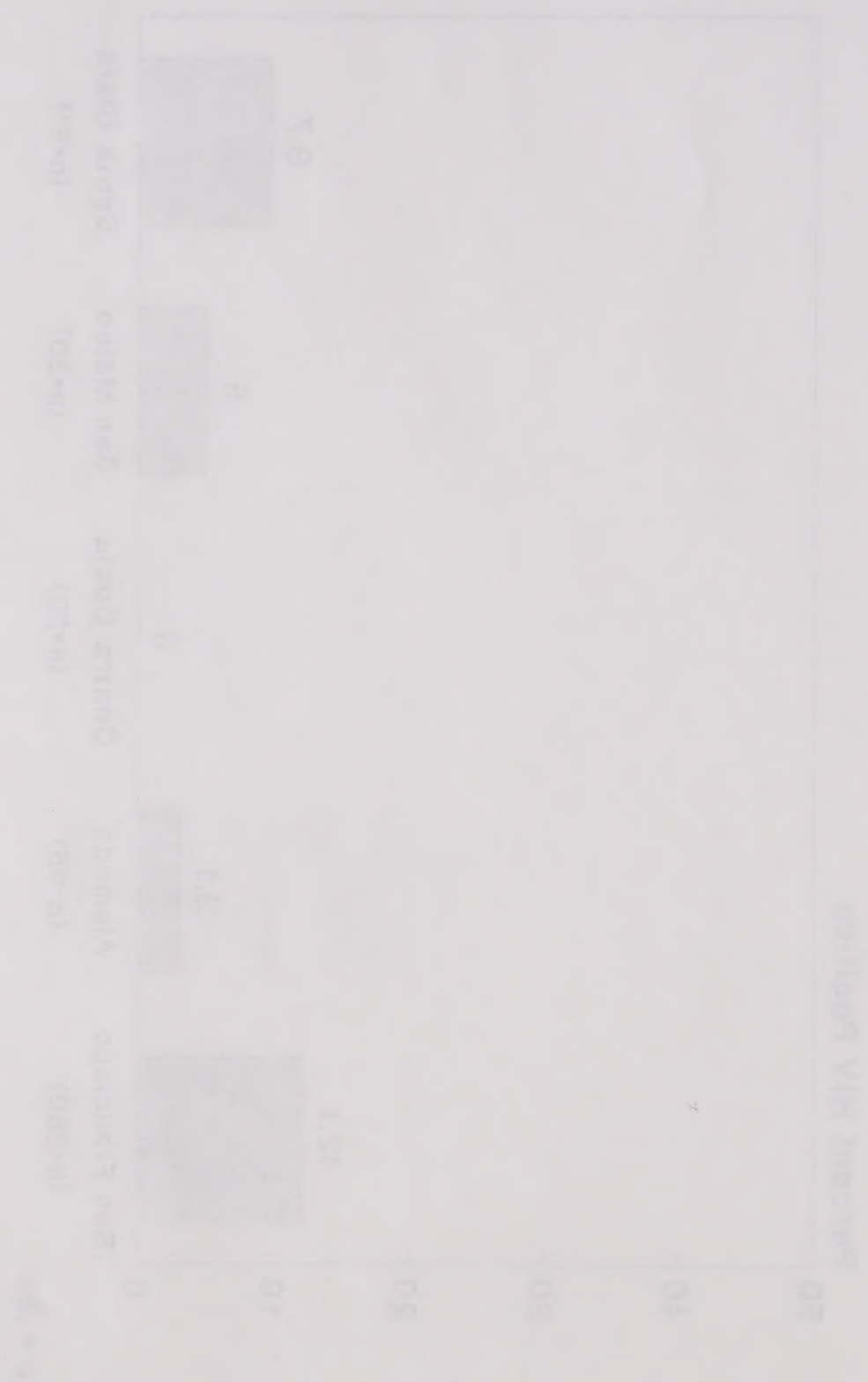


Prevalence of HIV by County of Residence among Young Men who have Sex with Men YMS: San Francisco/Berkeley, 1992-93

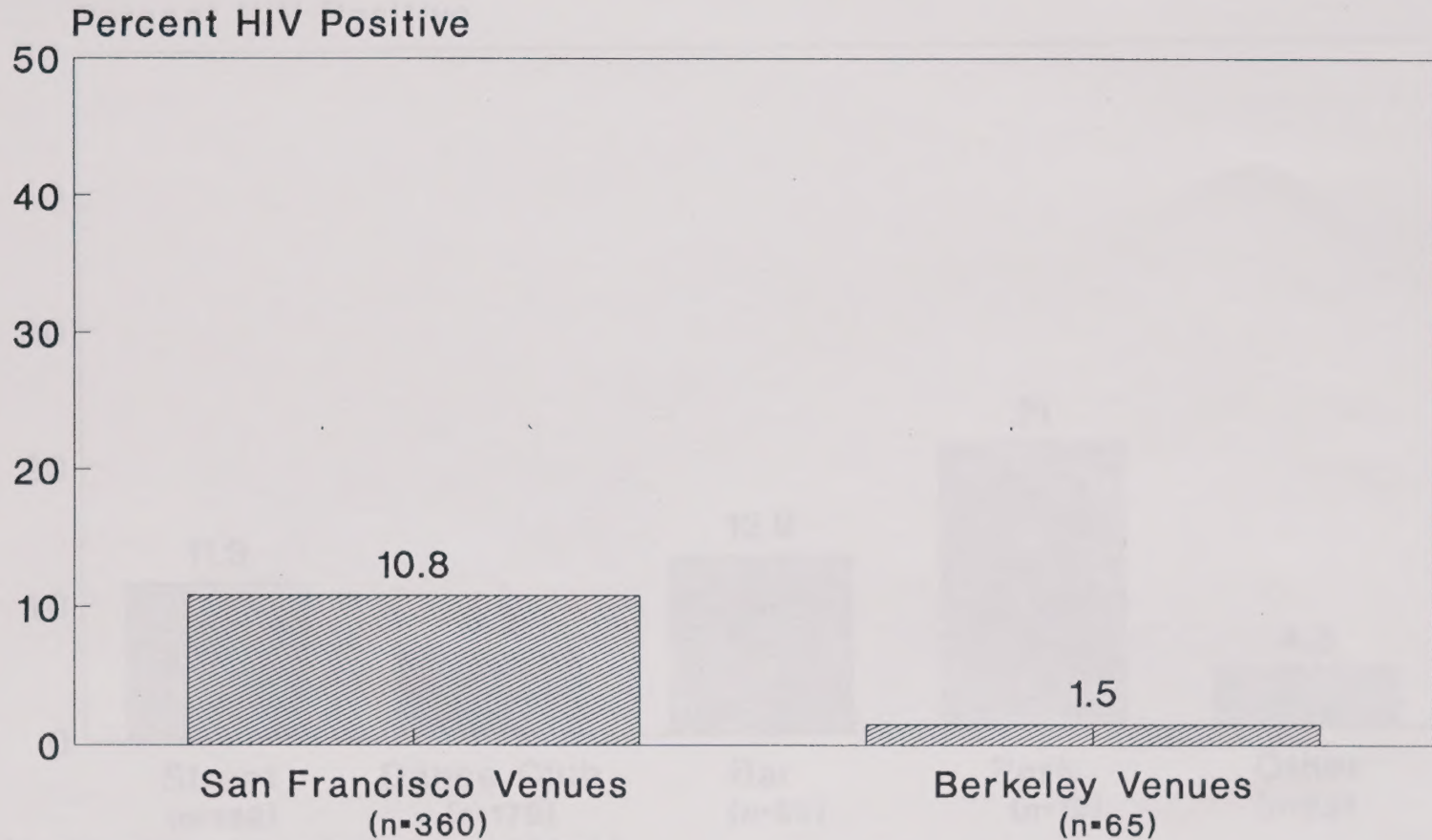


Prevalence of HIV by Country of Residence among men who have sex with men

1995-2001, Yehuda Viner, et al.

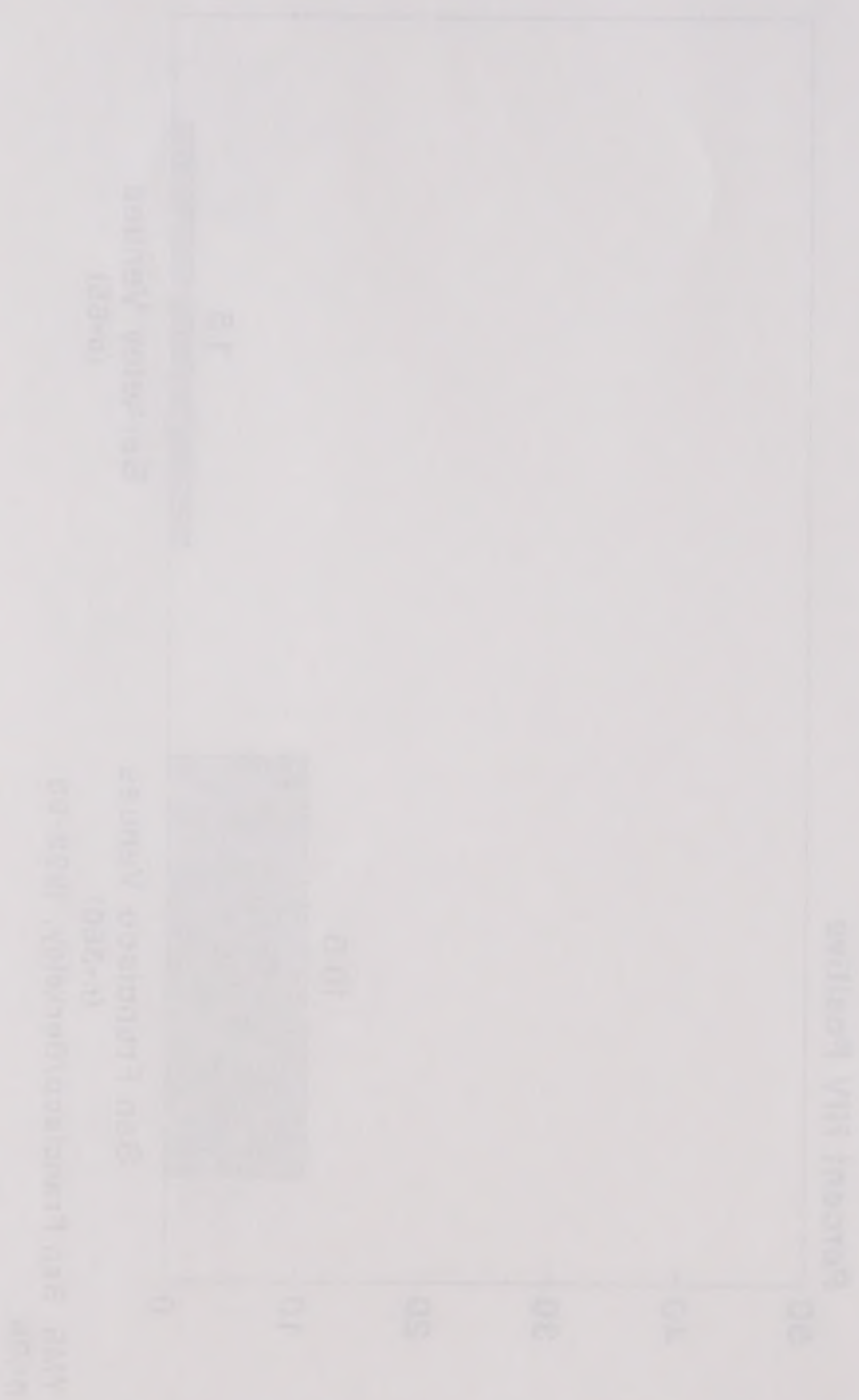


Prevalence of HIV by Location of Sampling Venues for Young Men Who Have Sex with Men

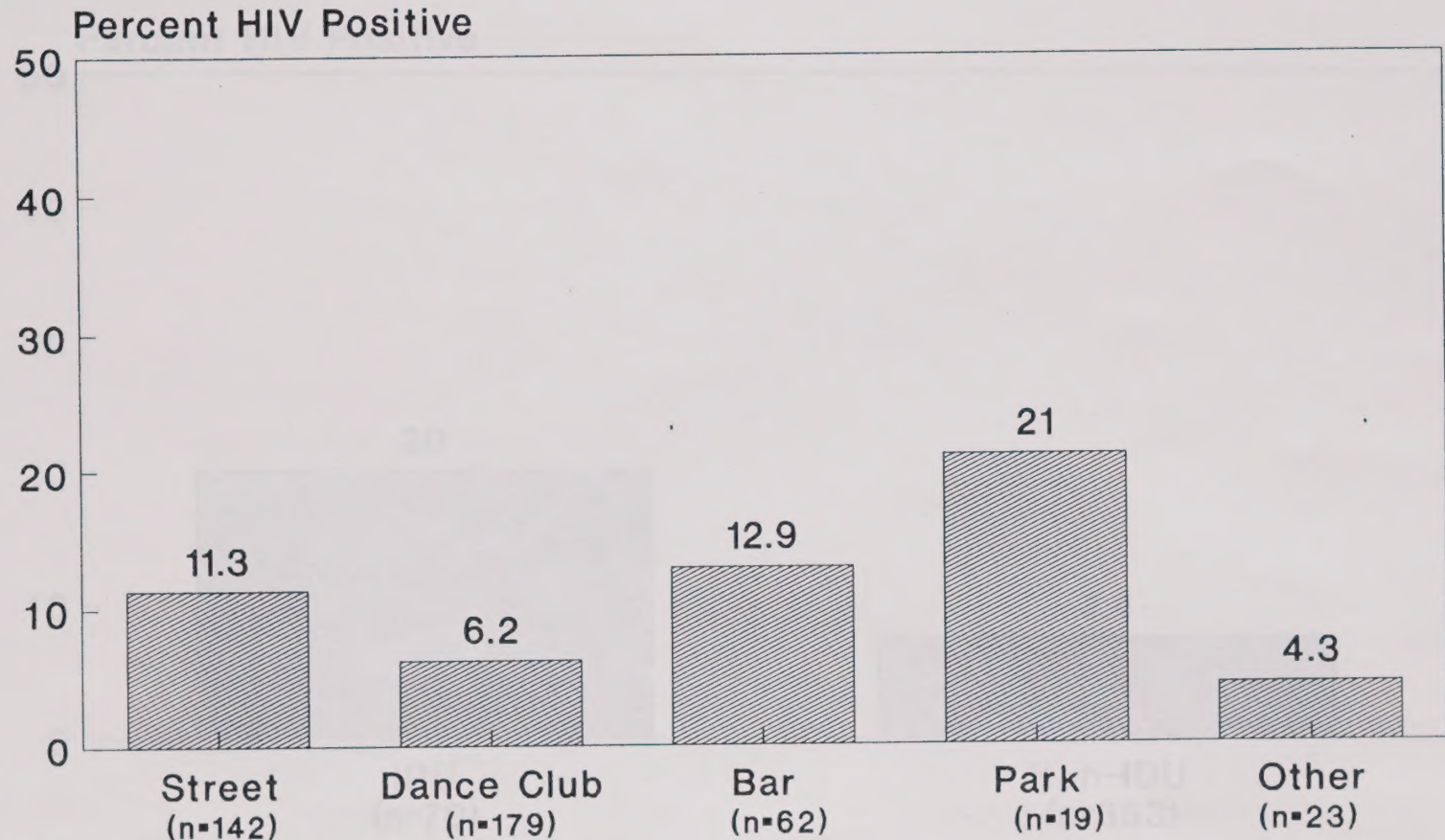


YMS: San Francisco/Berkeley, 1992-93
 $p < .05$

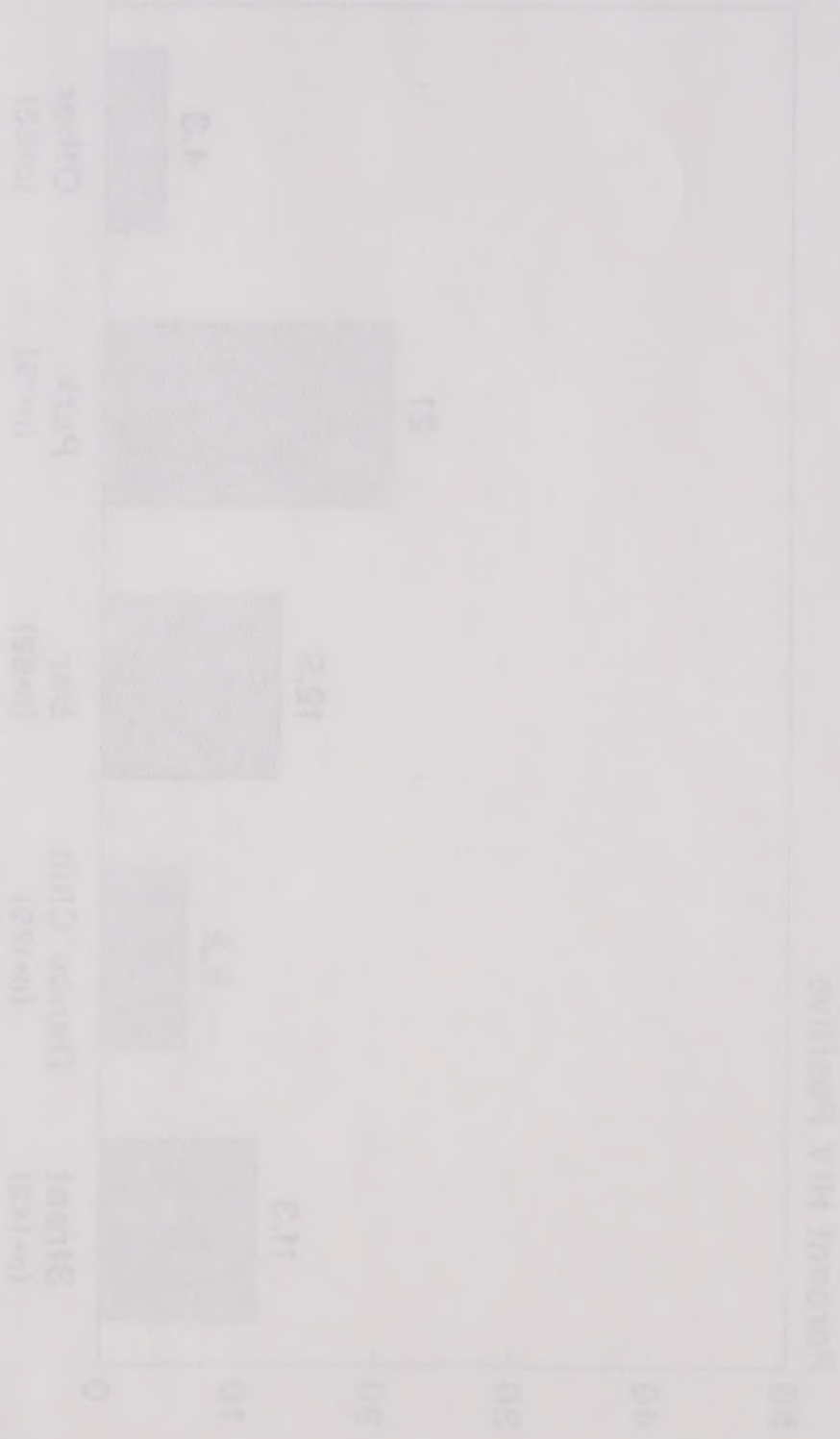
Prevalence of HIV to encourage other health groups to develop guidelines and their own



Prevalence of HIV by Type of Sampling Venue Among Young Men who Have Sex with Men

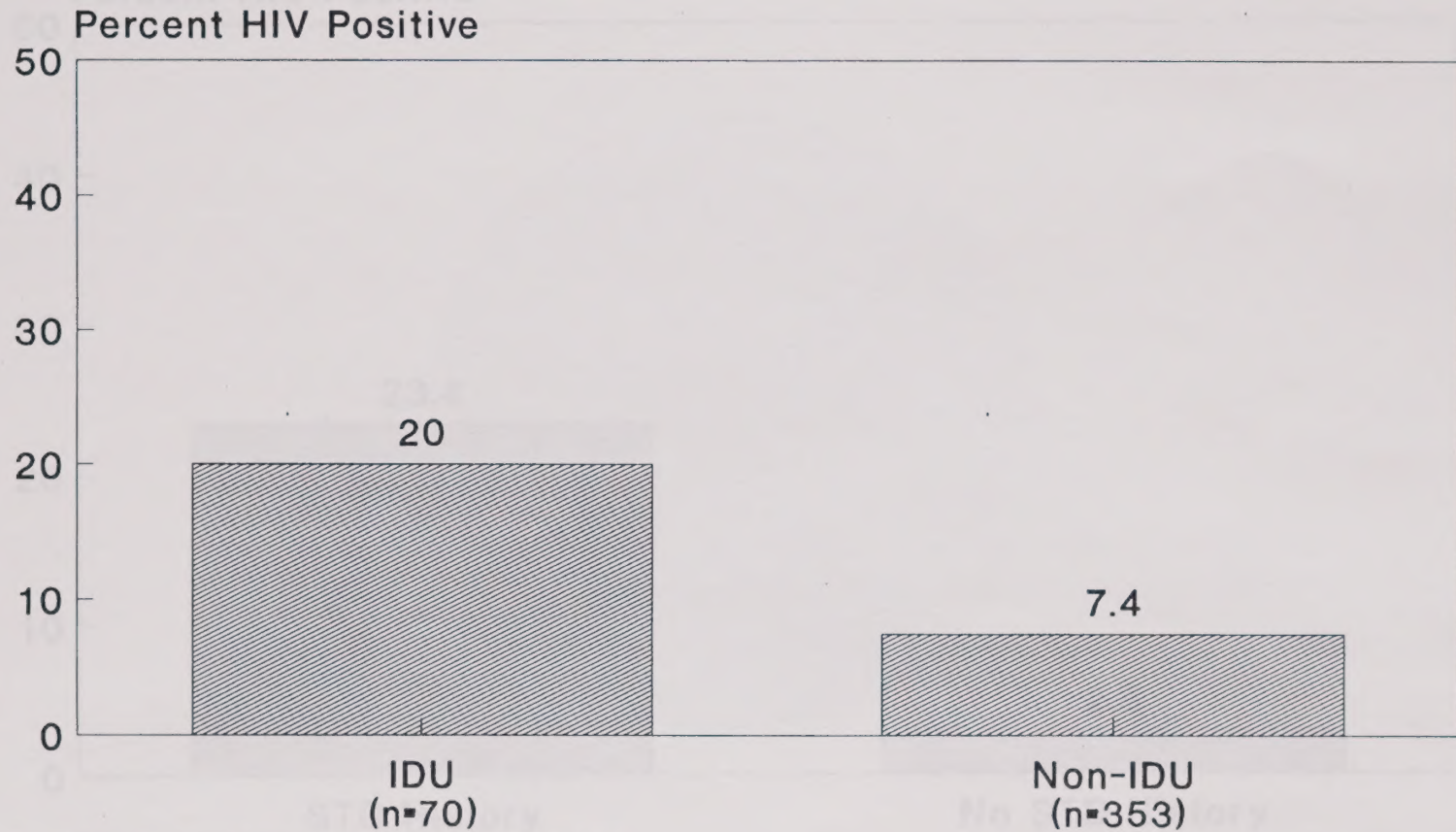


YMS: San Francisco/Berkeley, 1992-93
p=.12



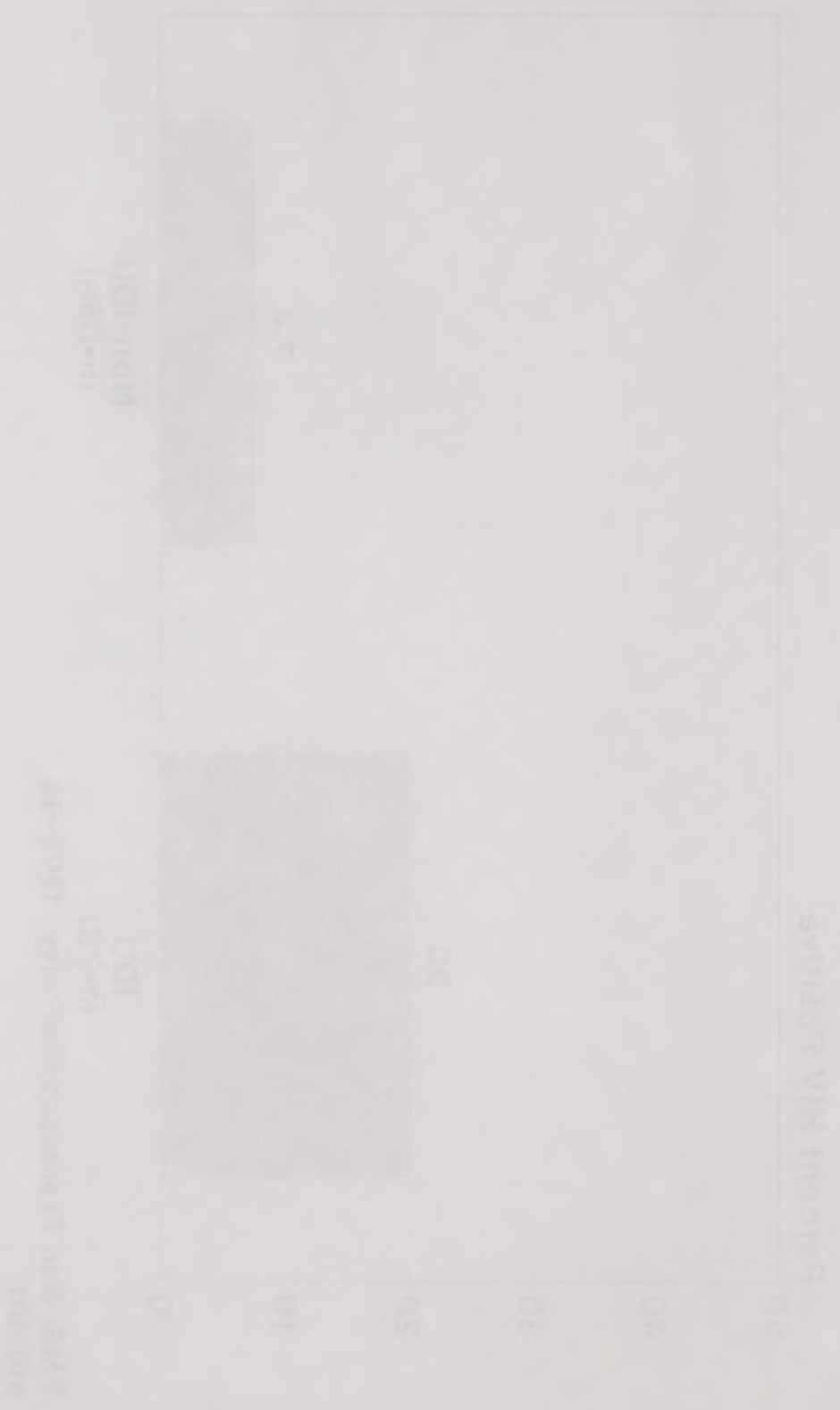
Prevalence of HIV by Type of Sampling
 Venue Among Young Men Who
 Have Sex with Men

Seroprevalence of HIV by Lifetime Injection Drug Use History Among Young Men who Have Sex with Men

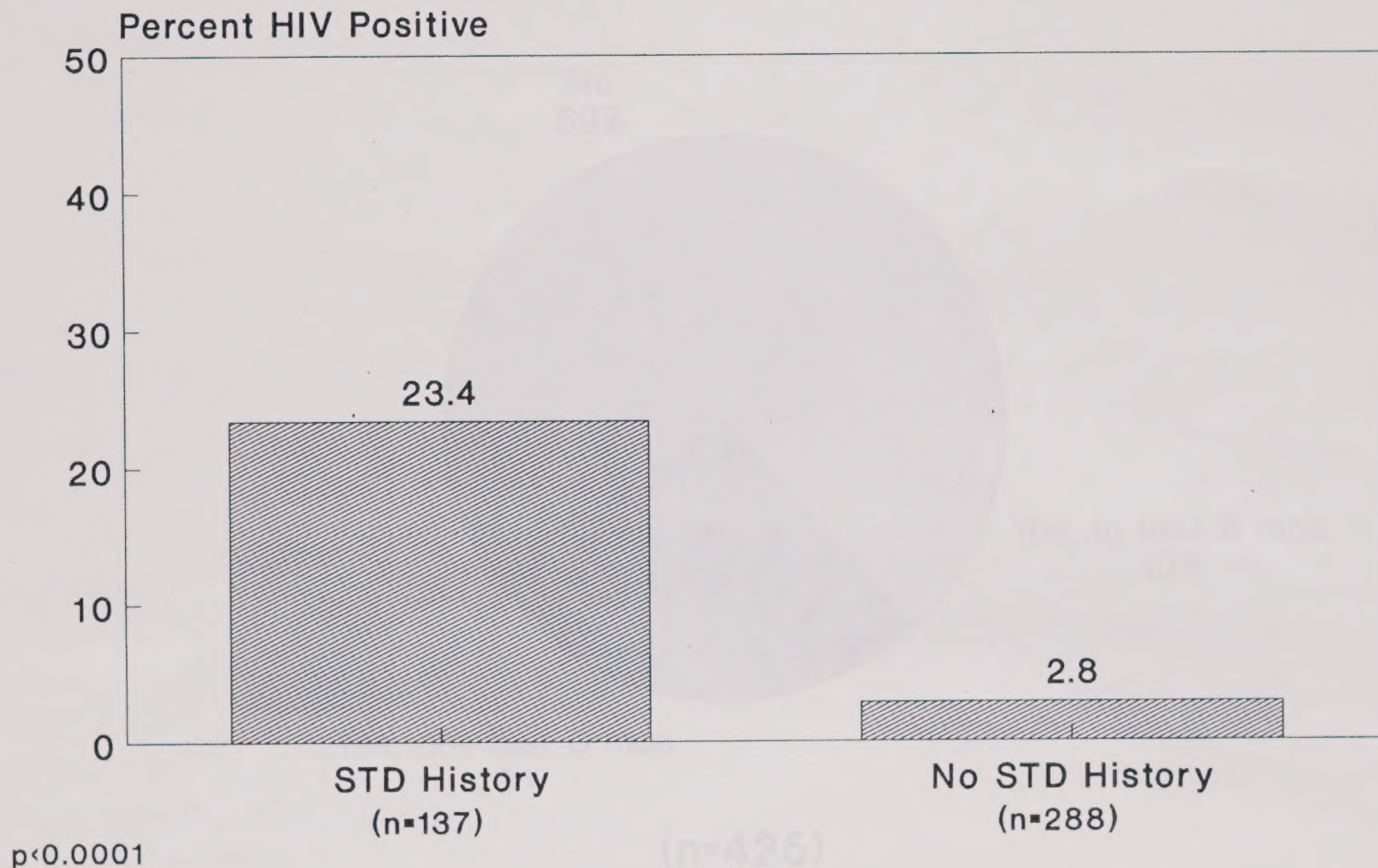


YMS: San Francisco/Berkeley, 1992-93
 $p < 0.001$

emitted by the various
 groups of the
 new men



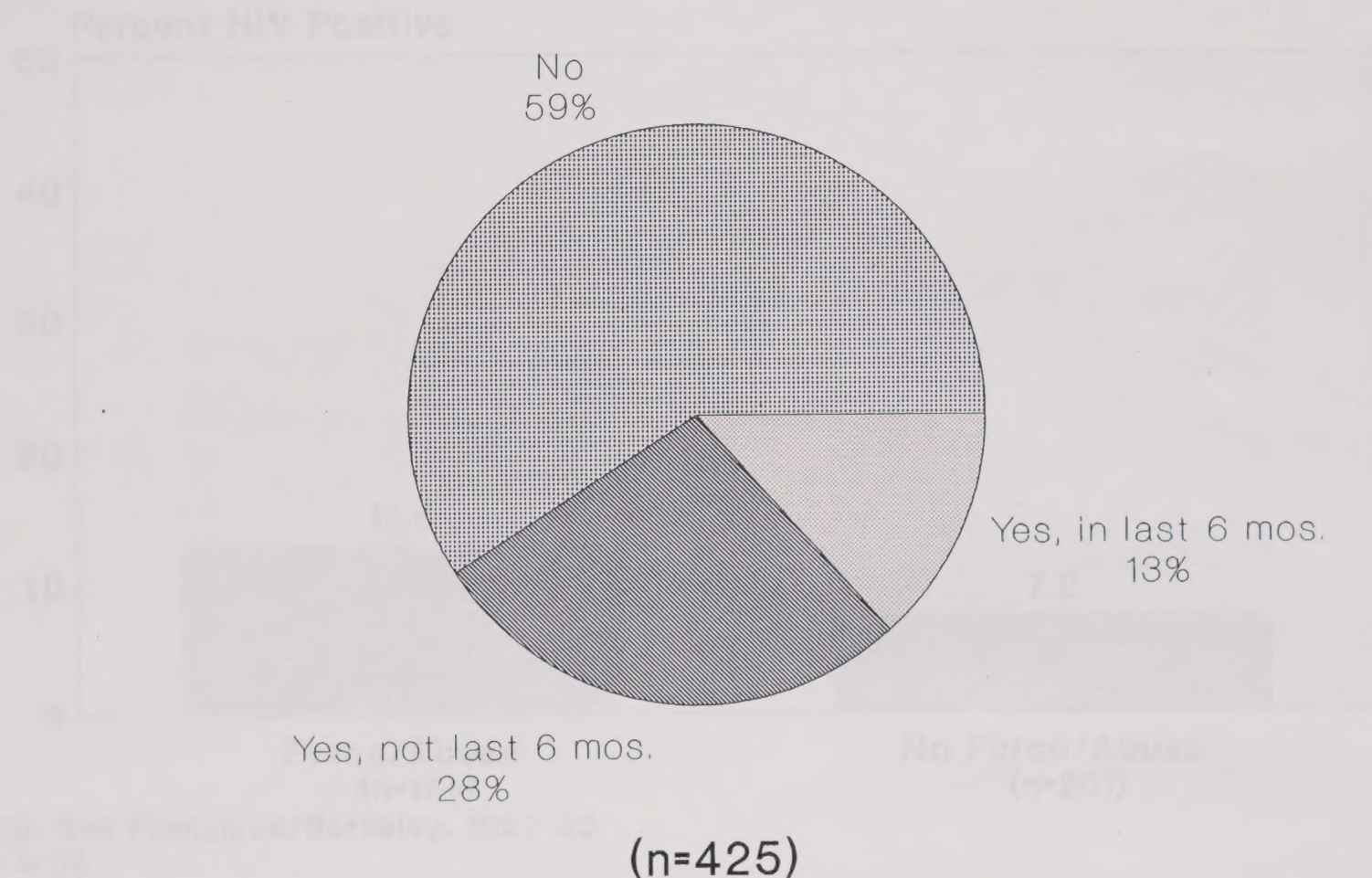
Seroprevalence of HIV by STD History among Young Men who Have Sex with Men YMS: San Francisco/Berkeley, 1992-93





The effect of pH on the activity of the enzyme was studied. The activity was measured at various pH values. The results are shown in the bar chart. The activity is highest at pH 6.5 and lowest at pH 4.0.

History of Forced Sex/Sexual Abuse Among Young Men who Have Sex with Men YMS: San Francisco/Berkeley, 1992-93



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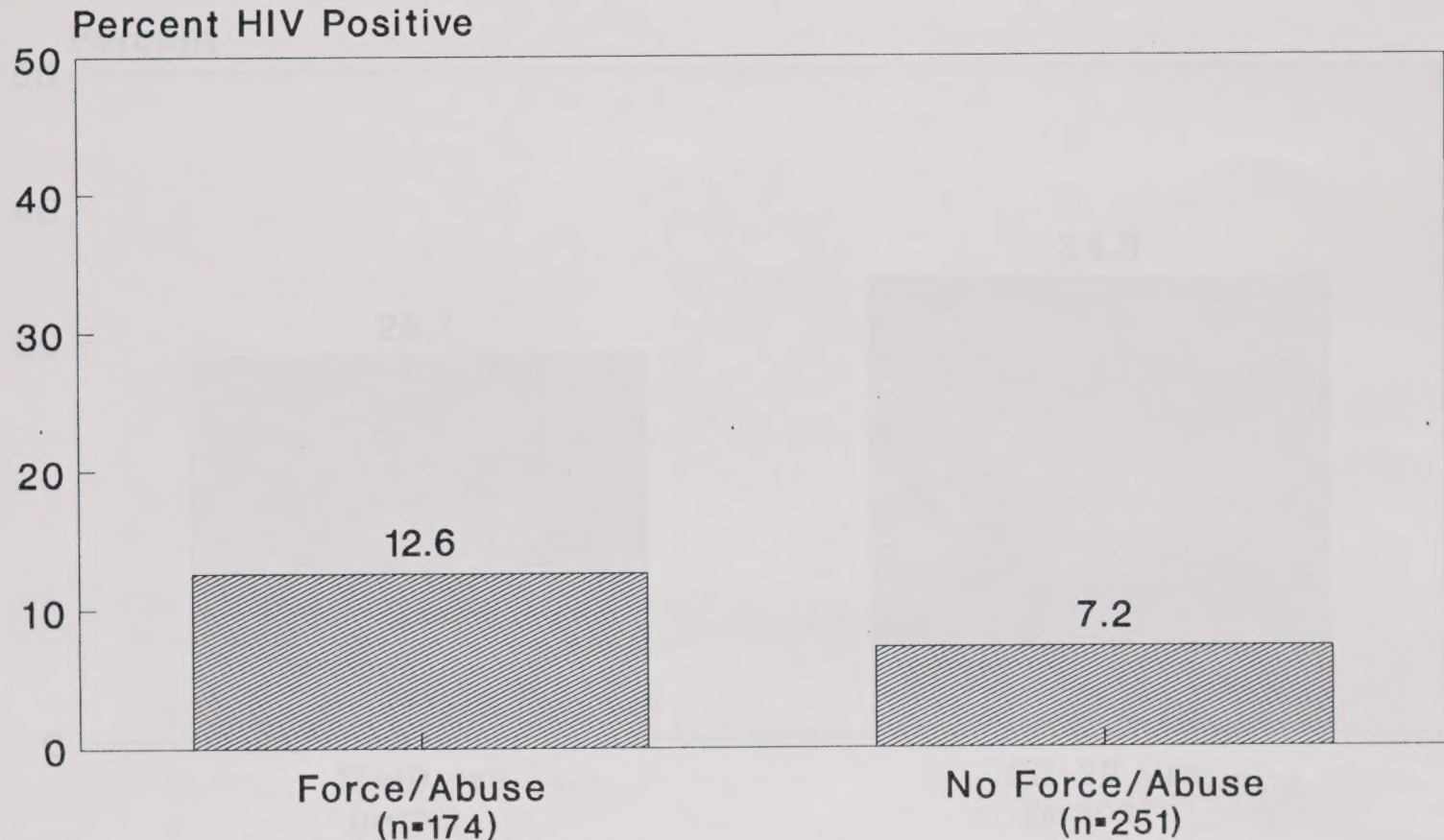


esuda lauxo8\ xez beoto7 io ytoieih

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(25407)

Prevalence of HIV by Lifetime History of Forced Sex/Sexual Abuse Among Young Men who Have Sex with Men



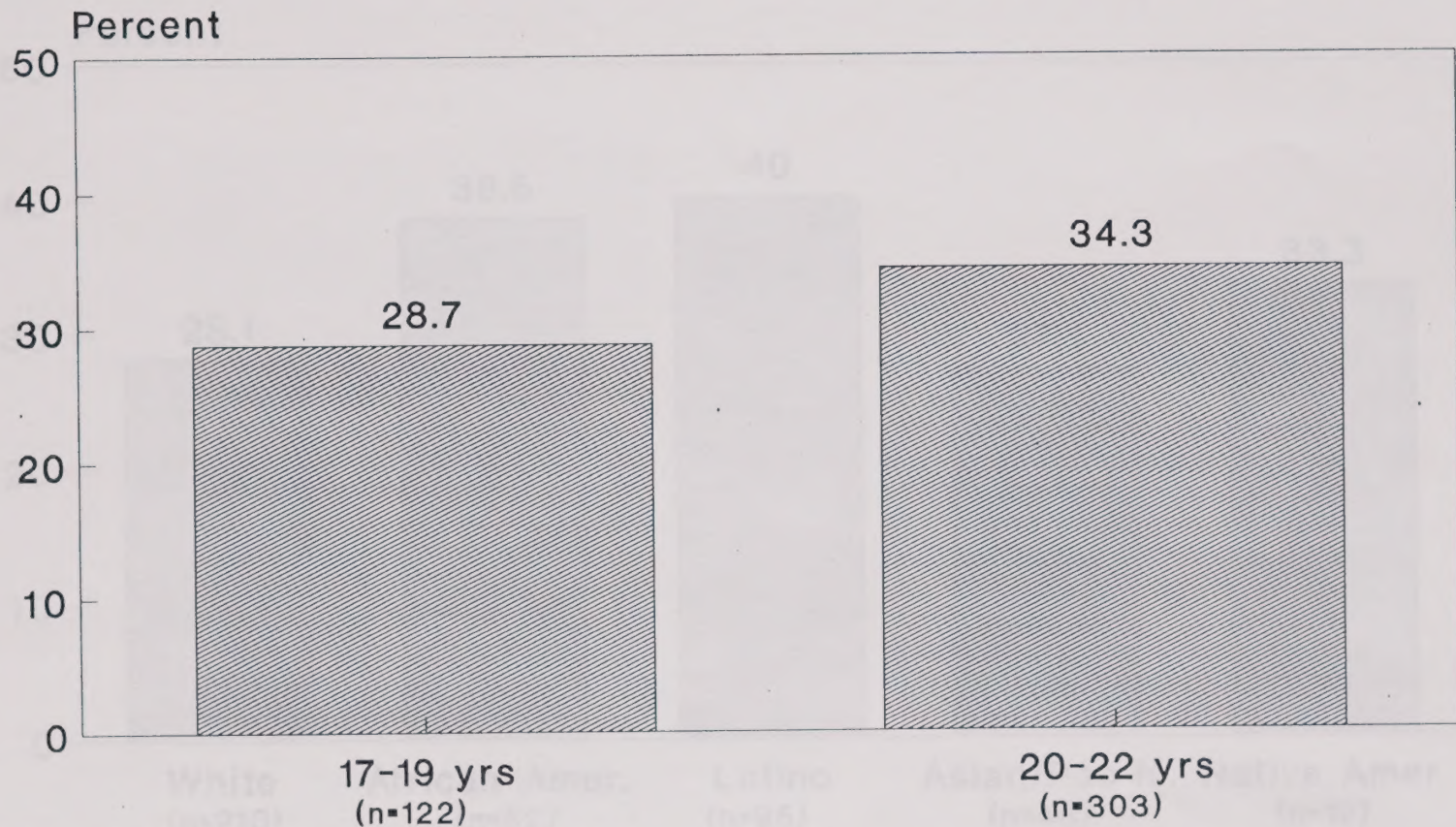
YMS: San Francisco/Berkeley, 1992-93
p = 0.06

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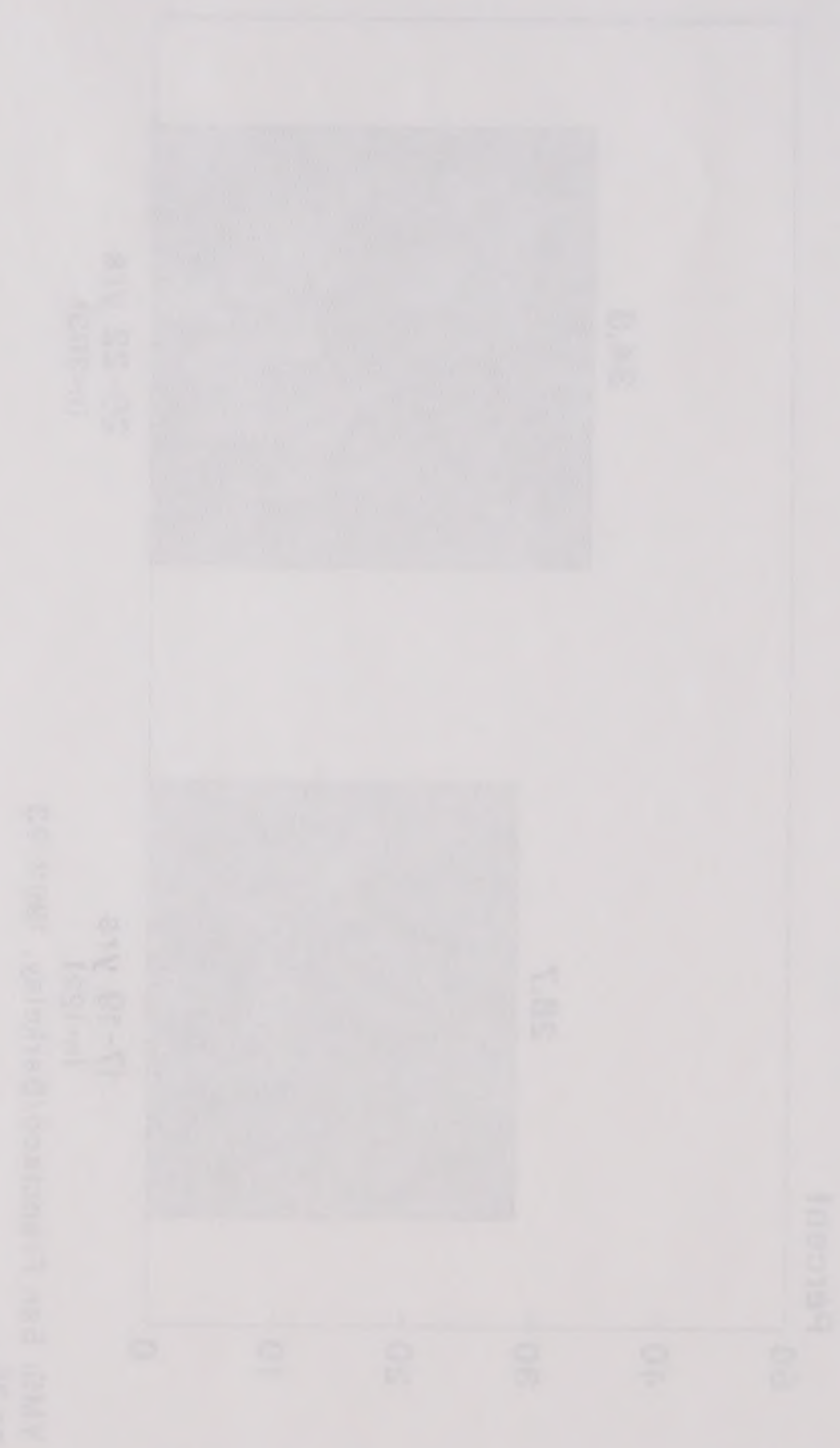
0 = 0.00
 0.05 0.10 0.15 0.20

Prevalence of Unprotected Anal Sex in Last 6 Months by Age Group Among Young Men who Have Sex with Men

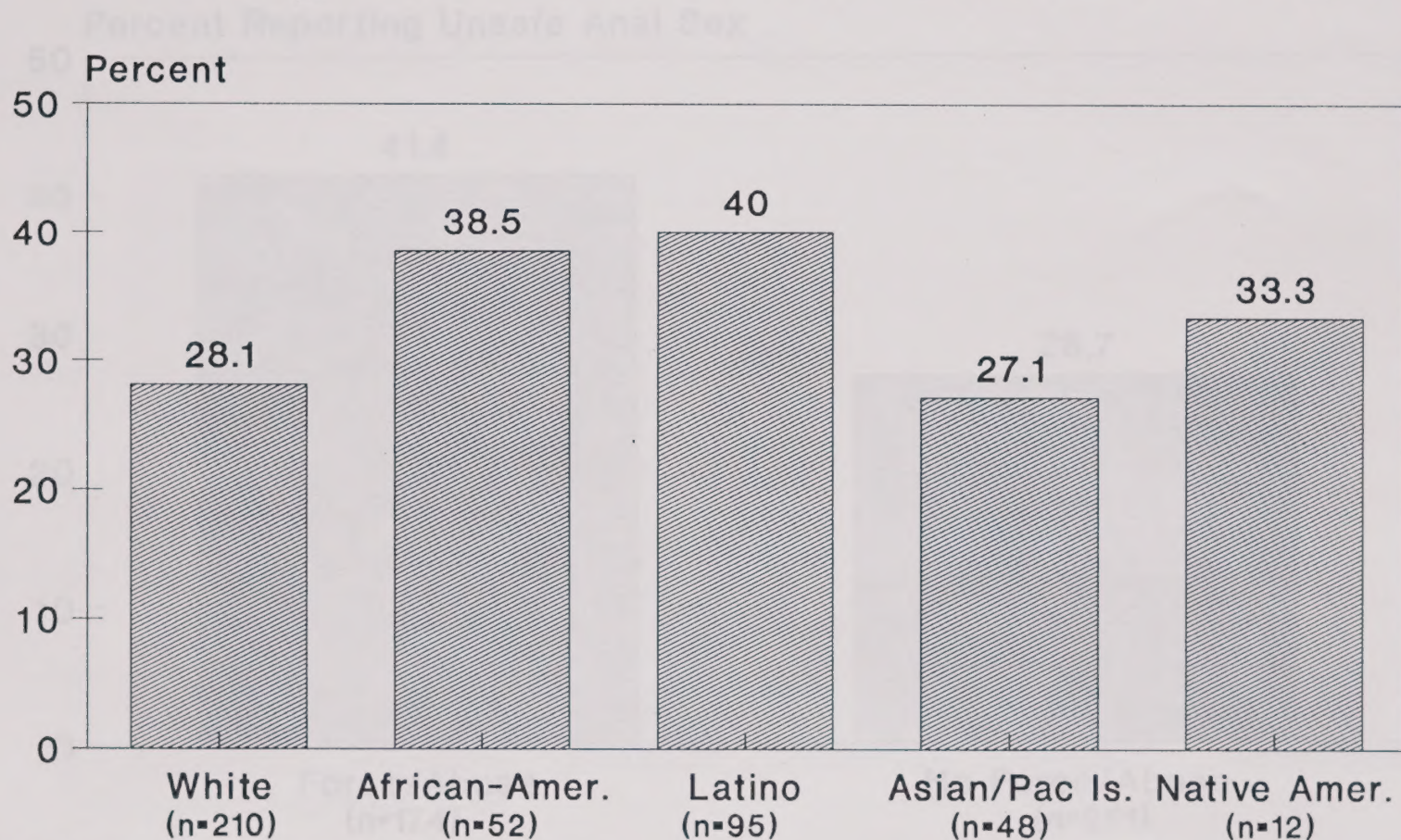


YMS: San Francisco/Berkeley, 1992-93
p=.26

Prevalence of Unprotected Sex Among Young Men Who Have Sex with Men

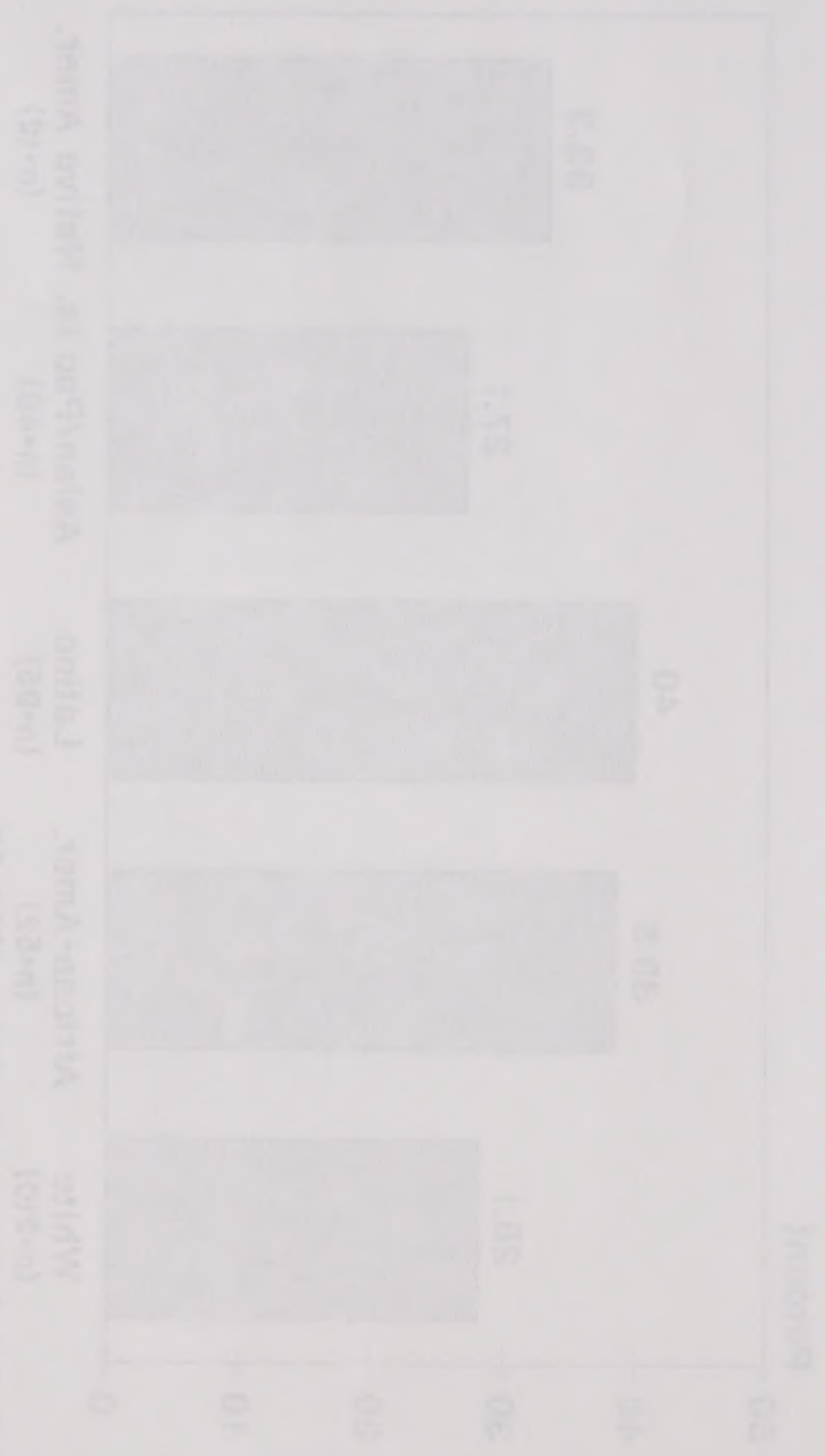


Prevalence of Unprotected Anal Sex in Last 6 Months by Race/Ethnicity Among Young Men who Have Sex with Men



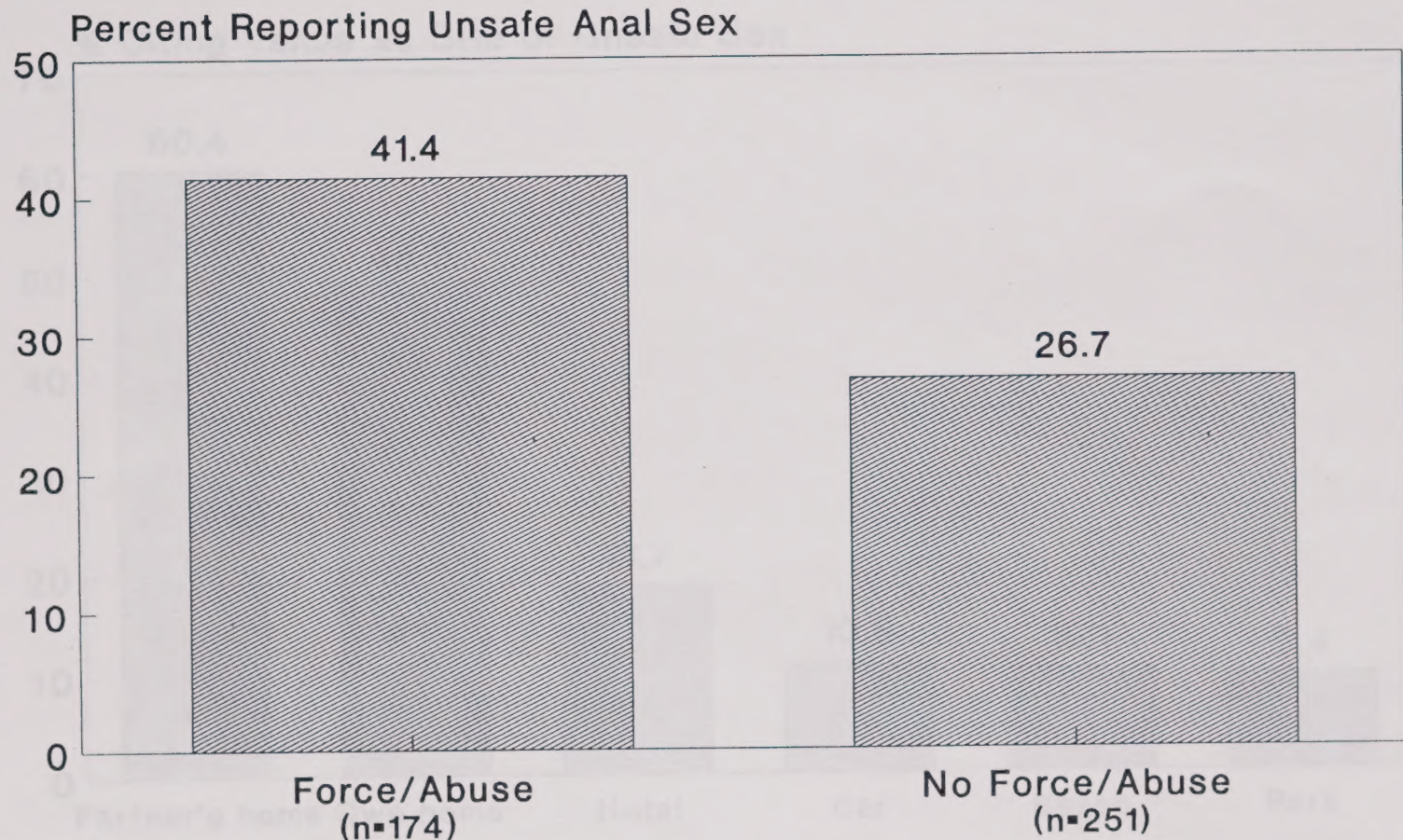
YMS: San Francisco/Berkeley, 1992-93
p=.22

Prevalence of Tuberculosis in Sexually Active Males and Females with HIV



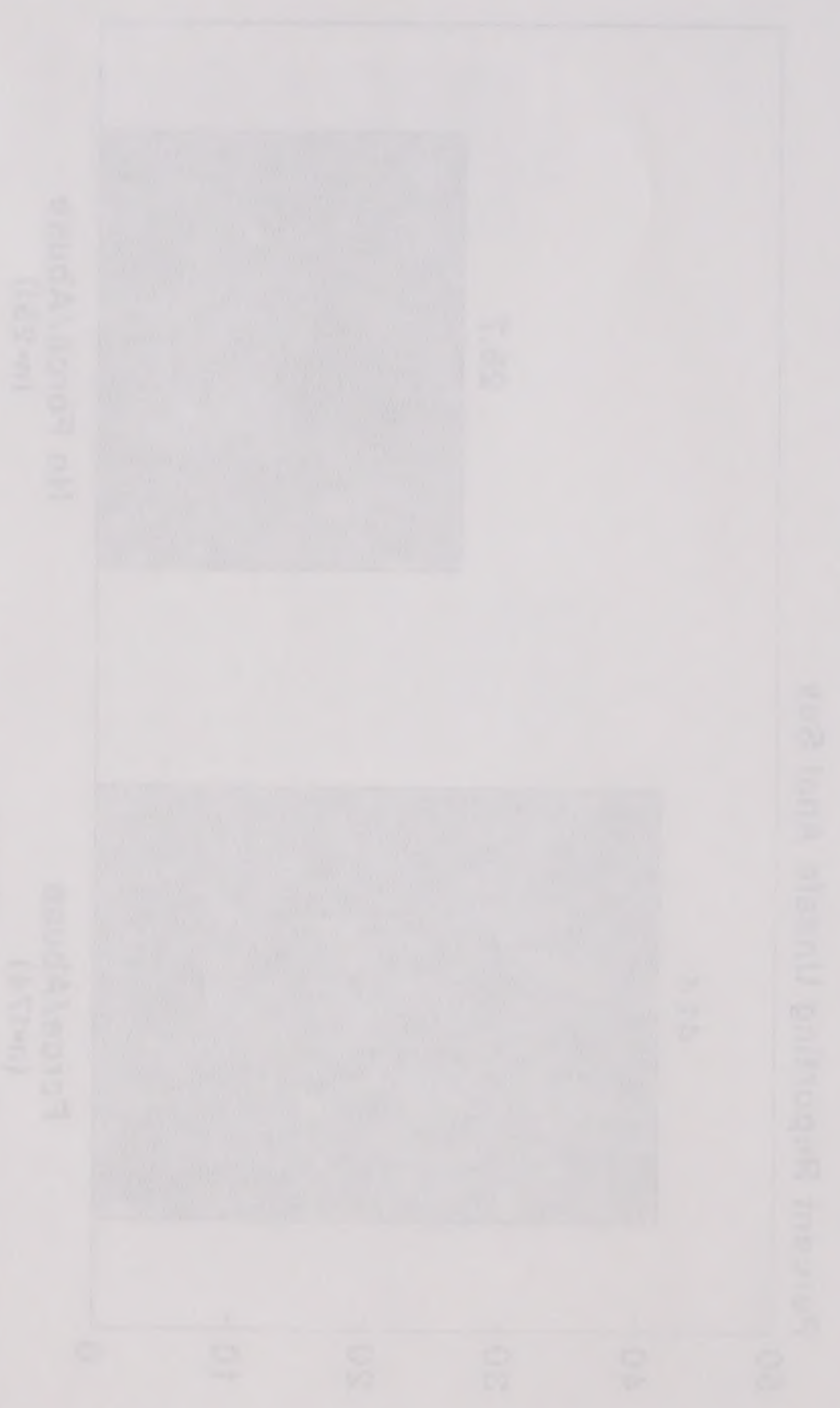
Source: National Tuberculosis Survey, 2000-2005. Data for sexually active individuals only.

Unprotected Anal Sex in Last 6 Months by Lifetime History of Forced Sex/Abuse Among Young Men who Have Sex with Men



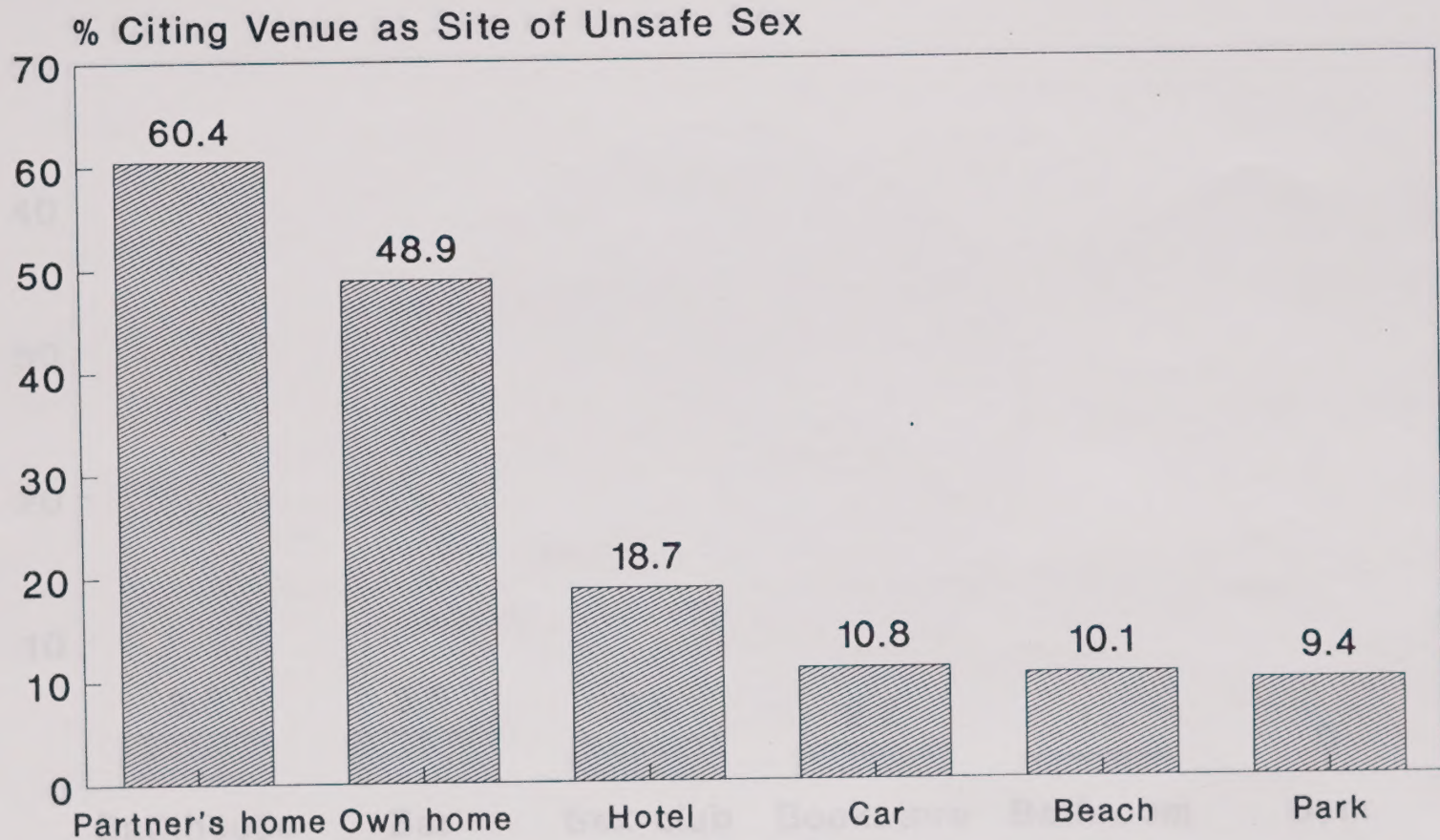
YMS: San Francisco/Berkeley, 1992-93
 $p < .005$

Among Young Men Who Have Sex with Men Protected Sexual History to Young Men and Young Women with Men



Sexual History and Sexual Behavior
 among Young Men Who Have Sex with Men

Venues Where Unsafe Anal Sex Occurs for Young Men Who Reported Unprotected Anal Sex with Men in the Last 6 Months (1)



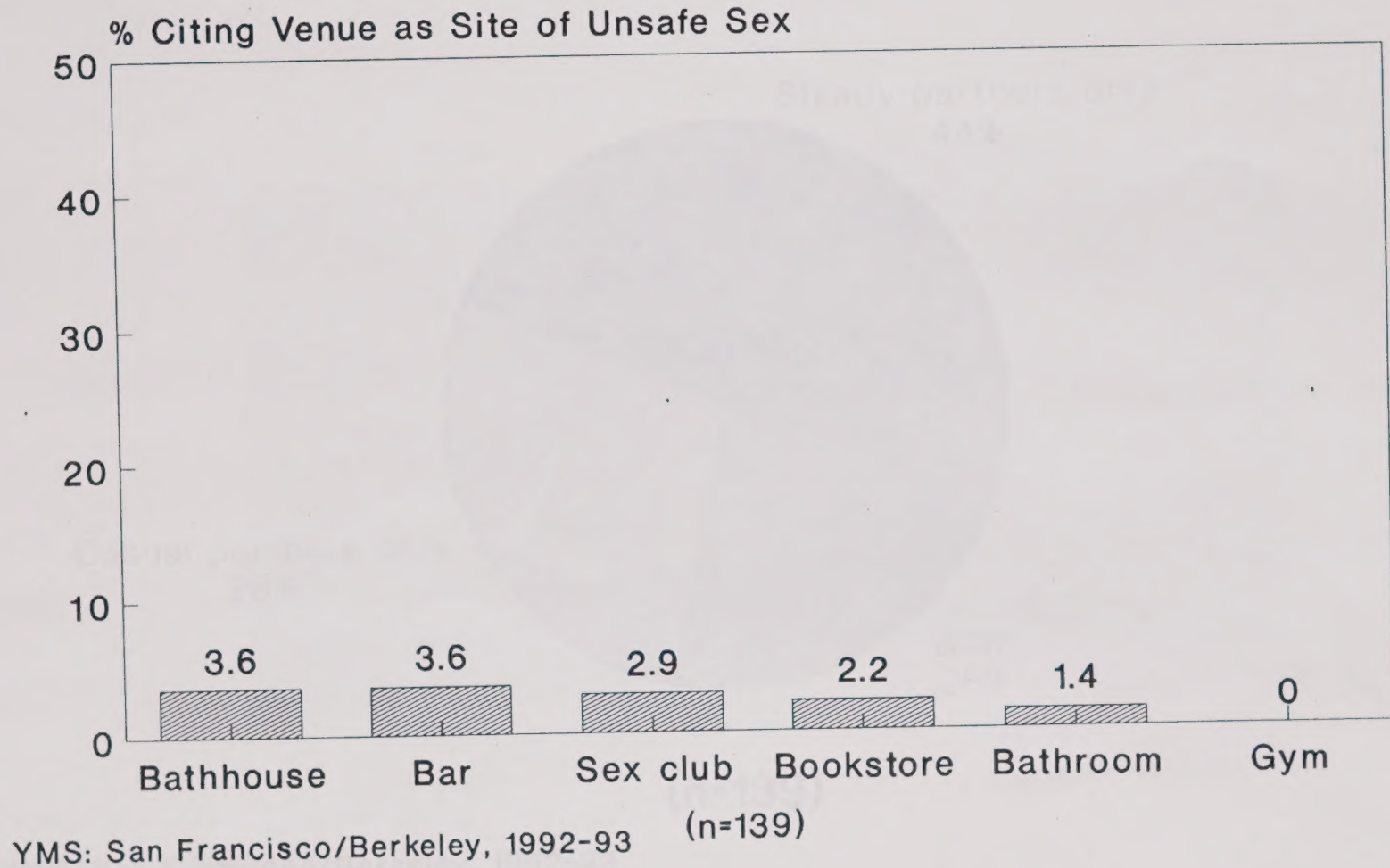
YMS: San Francisco/Berkeley, 1992-93 (n=139)



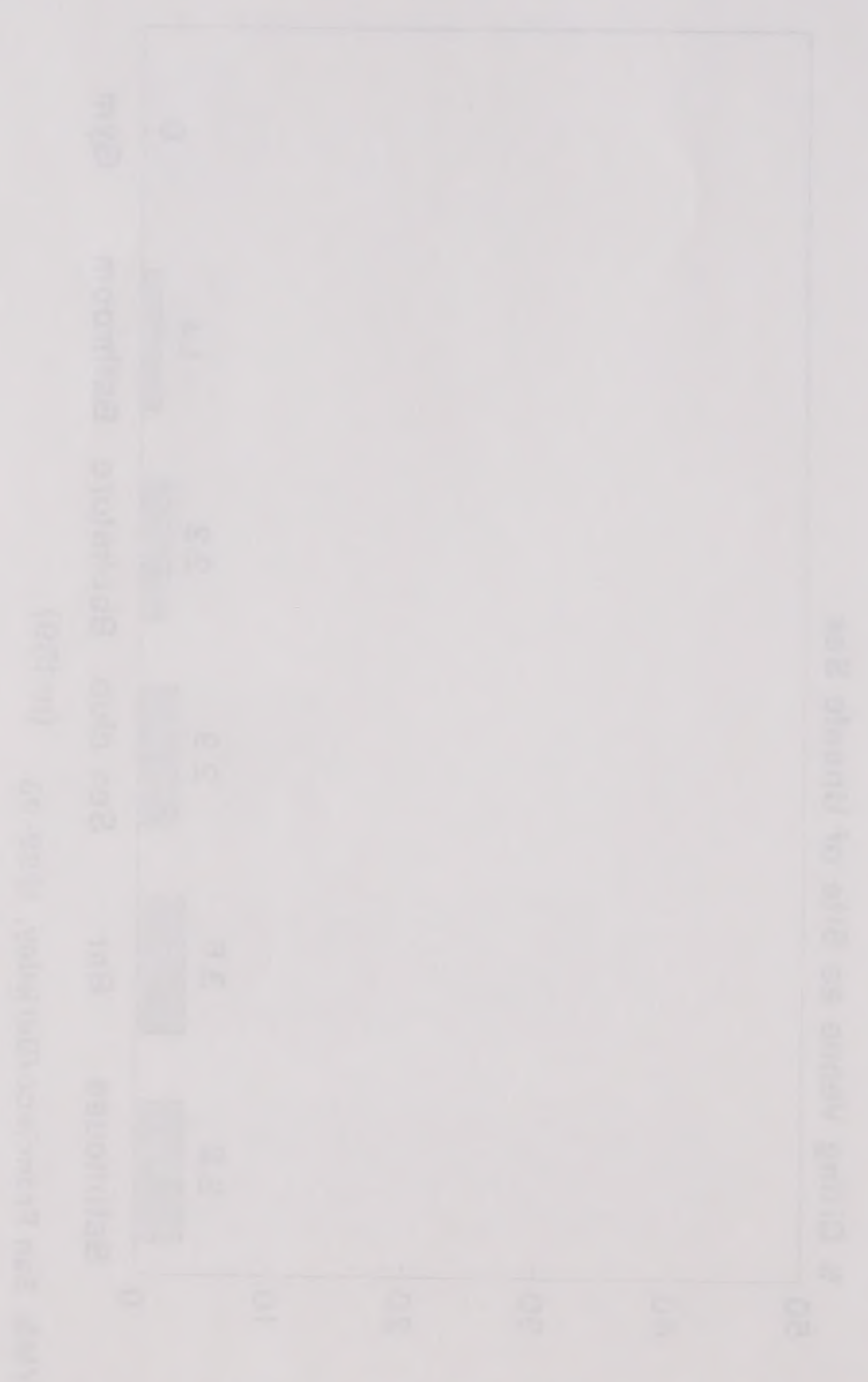
Sex with Men in the Last 6 Months (1)

Young Men Who Reported Being Sexually Abused by Family Members

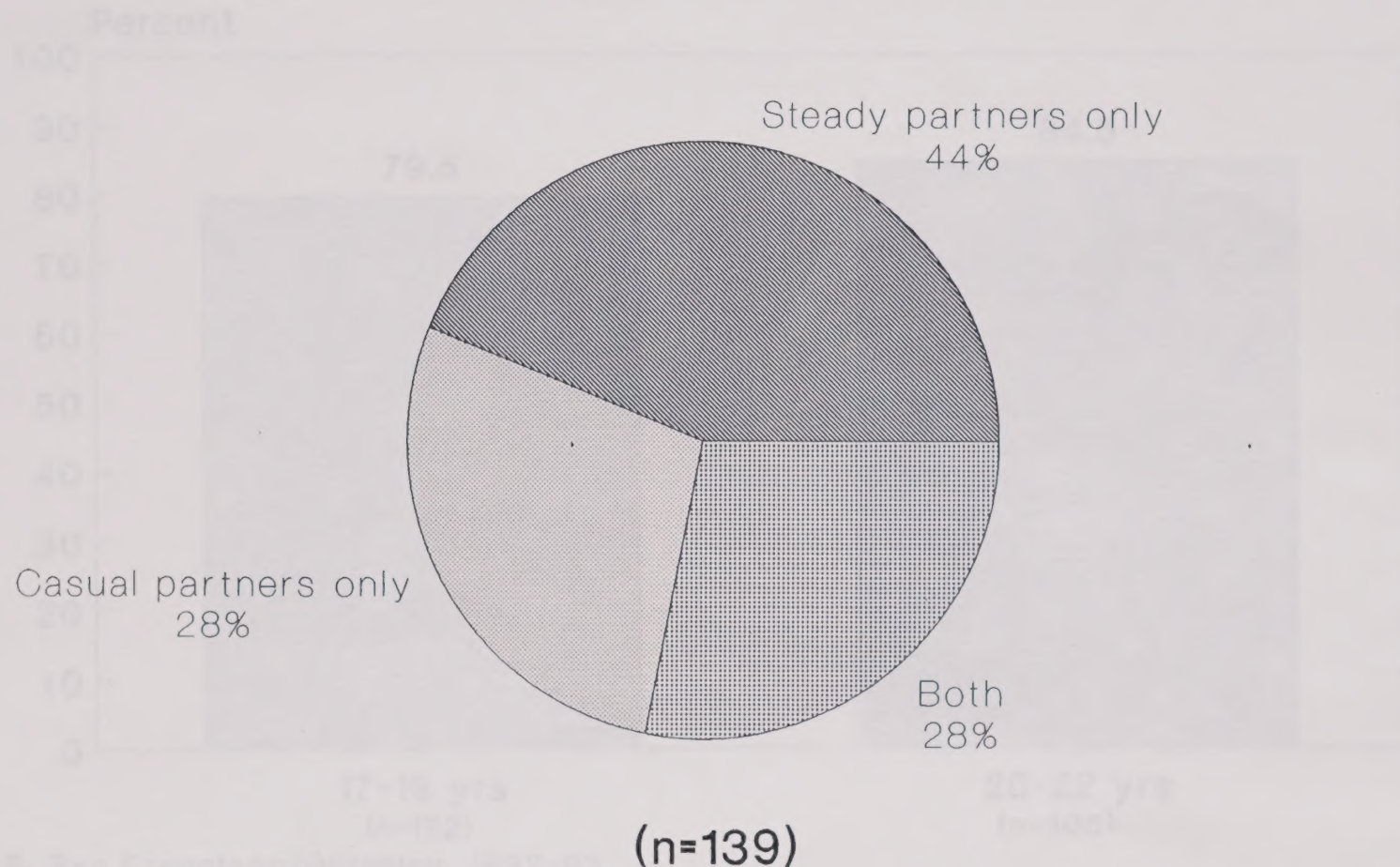
Venues Where Unsafe Anal Sex Occurs for Young Men Who Reported Unprotected Anal Sex with Men in the Last 6 Months (2)



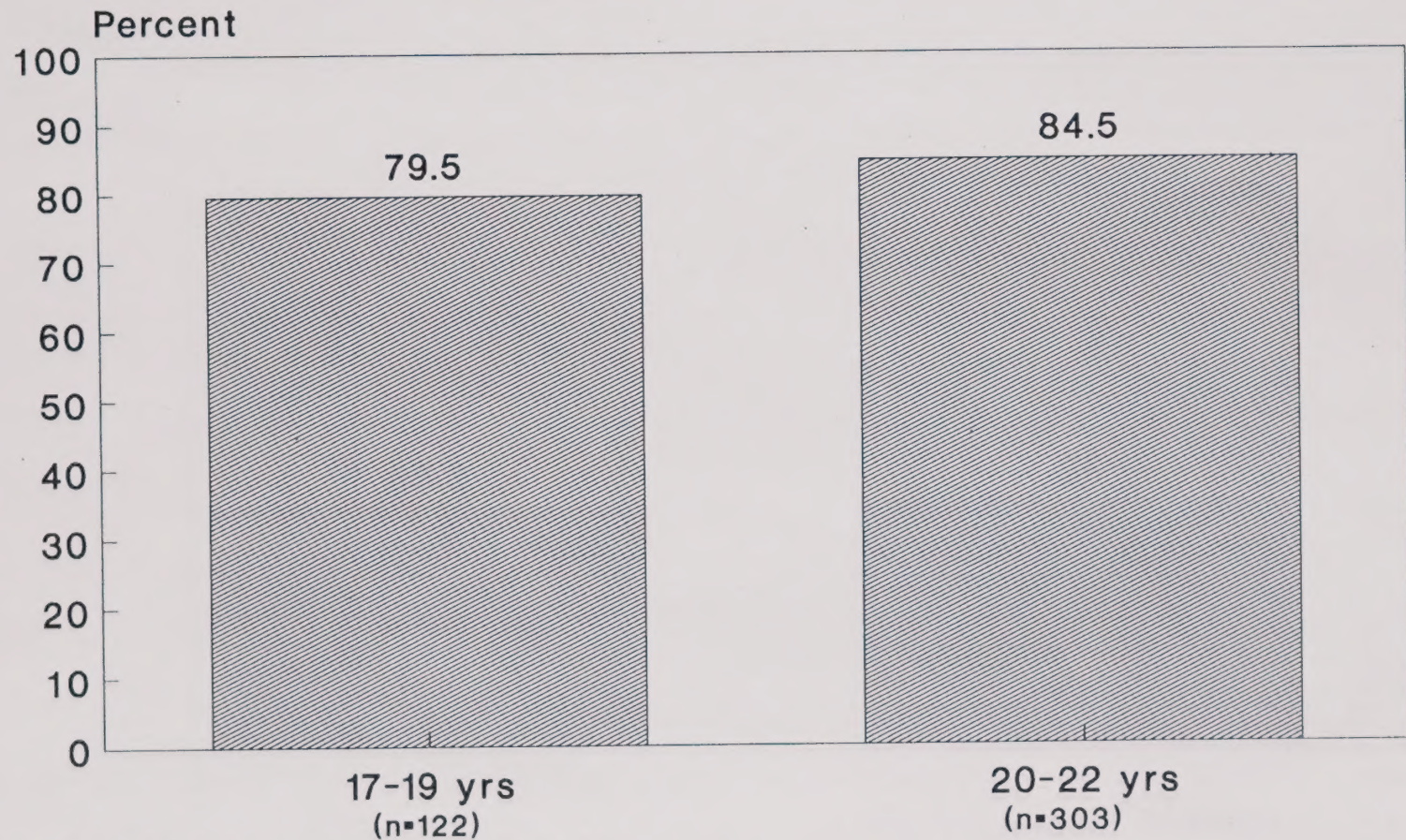
101 stucco xas, lana eibenU eretW saunov
 Isna betototqnu bettoqef otW/ neM gnuoy
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Respondents Reporting Unprotected Anal Sex in the Past 6 Months among Young Men who have Sex with Men



Prevalence of Unprotected Oral Sex in Last 6 Months by Age Group Among Young Men who have Sex with Men

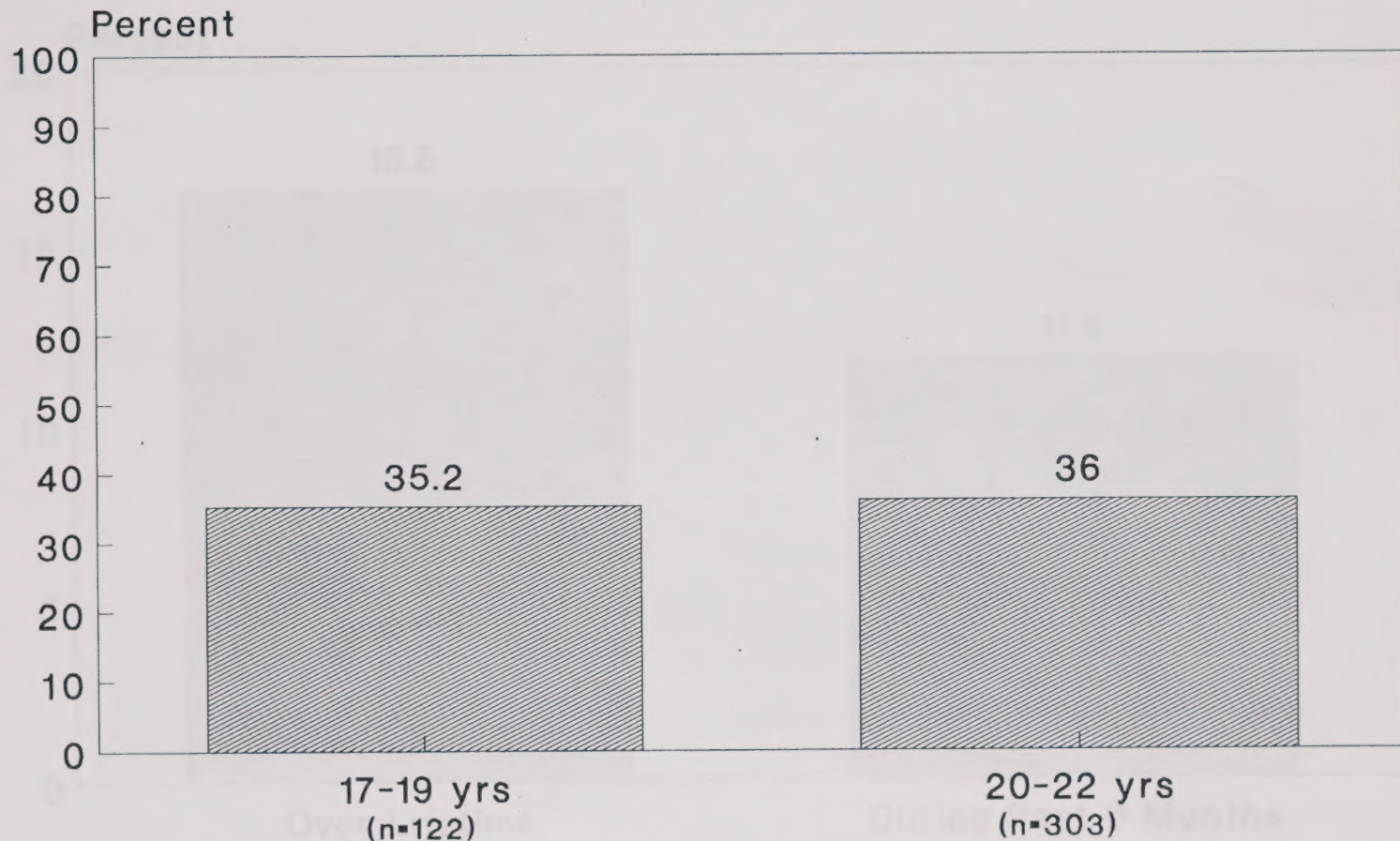


YMS: San Francisco/Berkeley, 1992-93
p=.22

xas laro batorqnu to conelavay
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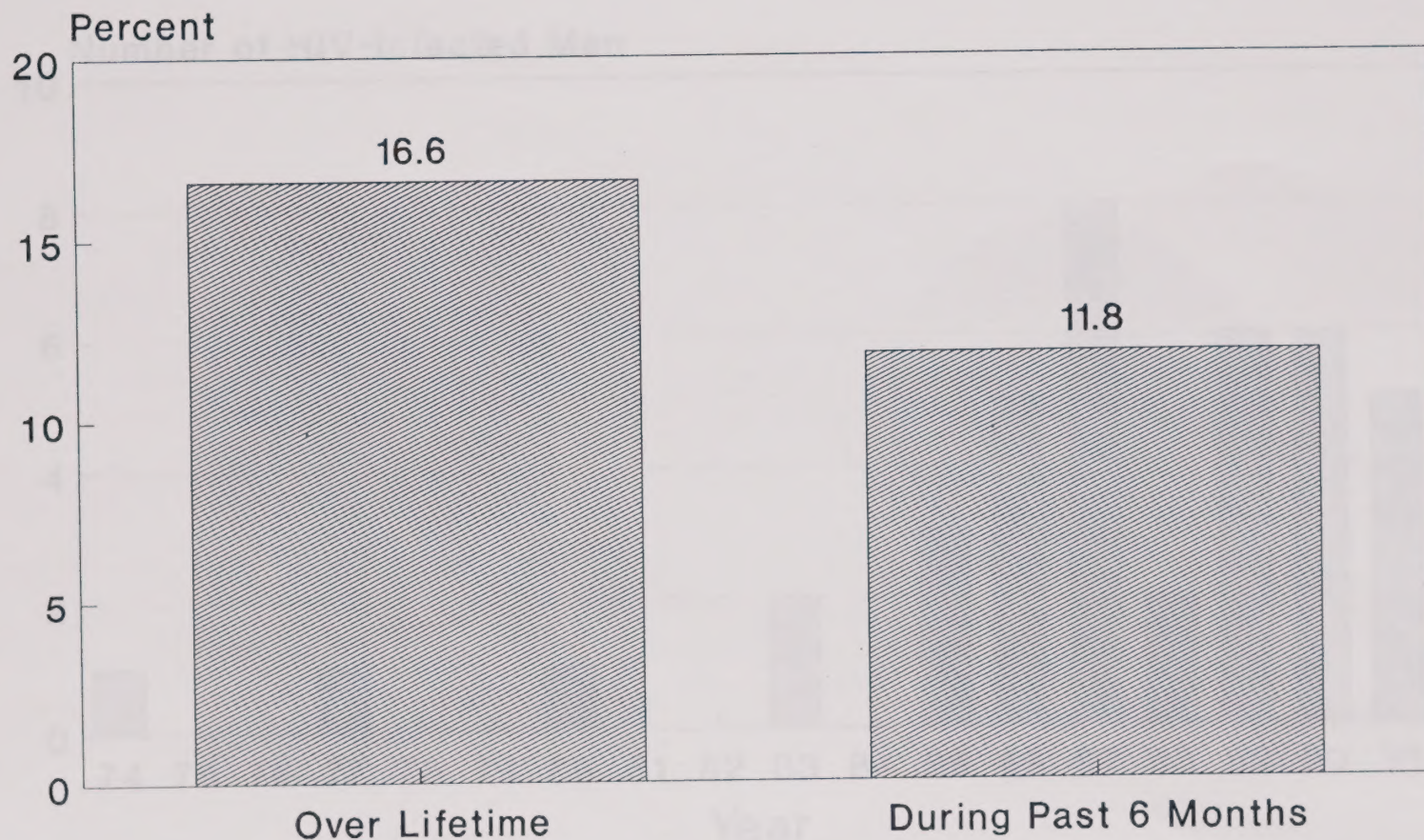


Prevalence of Unprotected Oral Sex with Ejaculation in Last 6 Mos. by Age Group Among Young Men who have Sex with Men



YMS: San Francisco/Berkeley, 1992-93
p=.89

Prevalence of Injection Drug Use Among Young Men who Have Sex with Men YMS: San Francisco/Berkeley, 1992-93



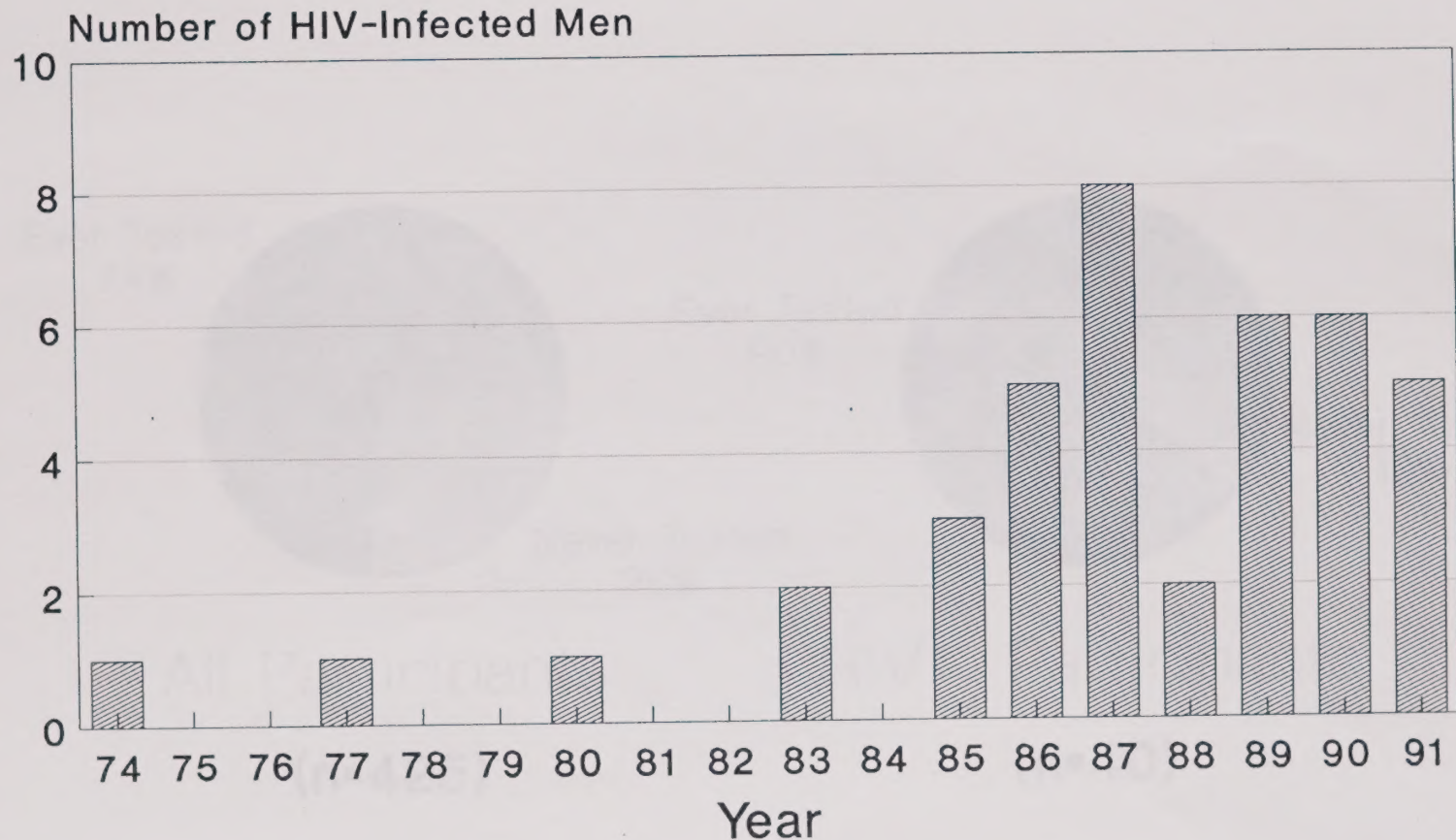
(n=423)

(U-453)



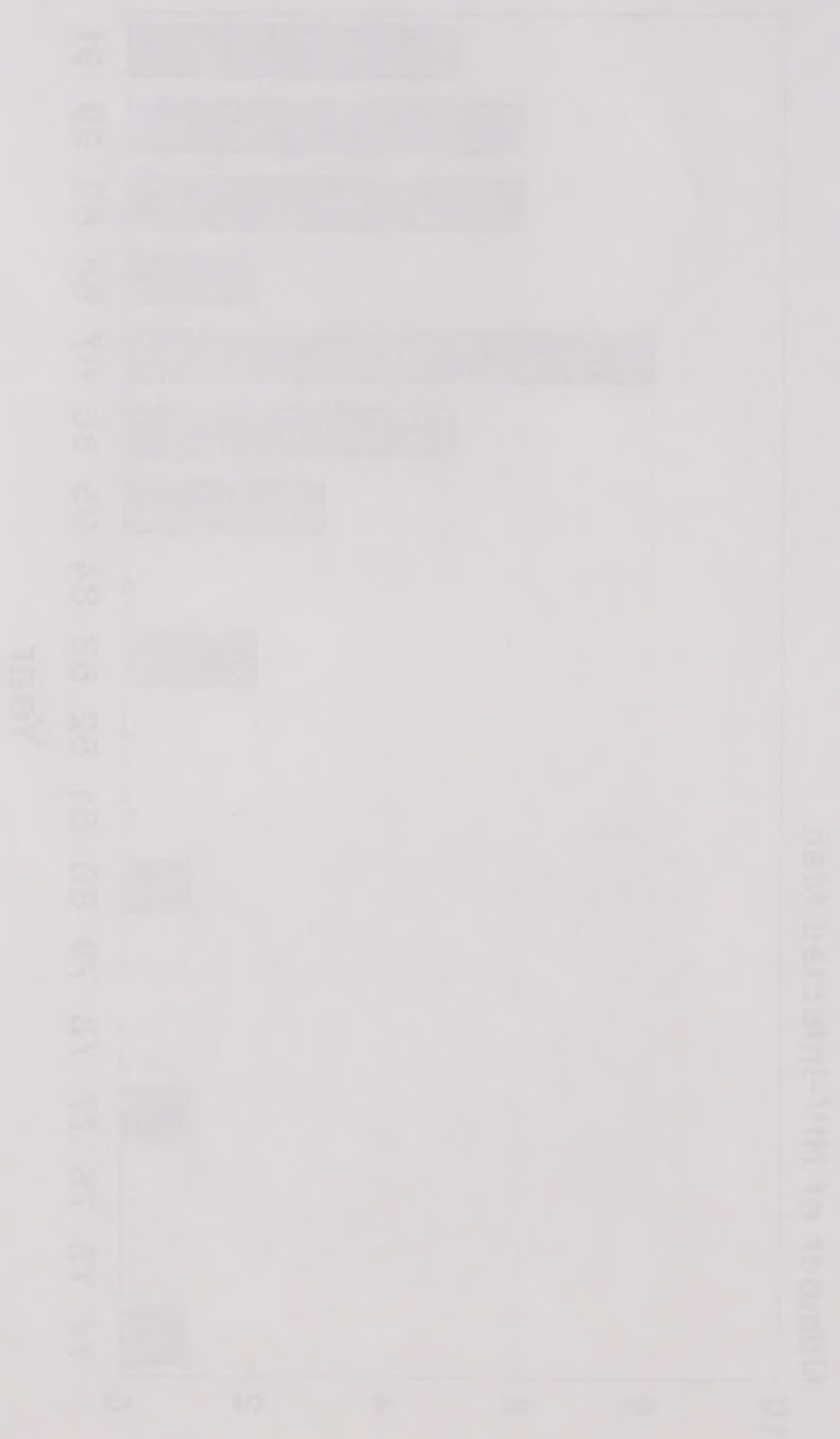
AM2: San Francisco, 1985-83
Among young men who have sex with men
prevalence of infection and use

Year of First Occurrence of Injection Drug Use or Anal Sex Among HIV-Infected Young Men who Have Sex with Men

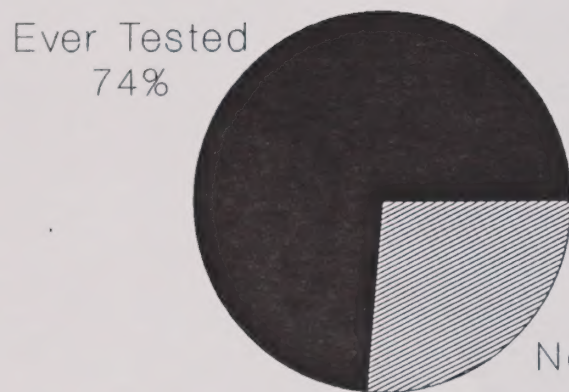


YMS: San Francisco/Berkeley, 1992-93

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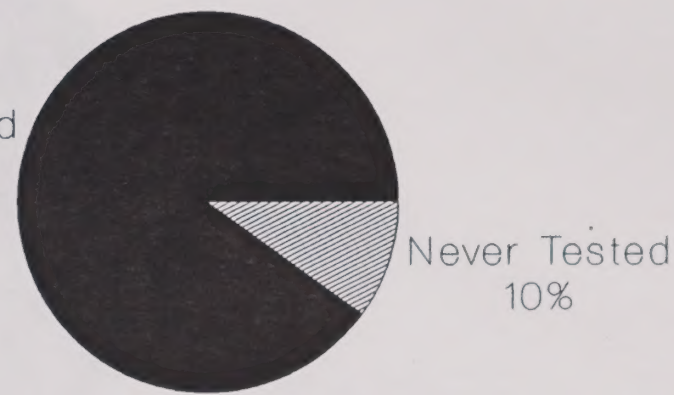


HIV Antibody Testing History among Young Men who have Sex with Men YMS: San Francisco/Berkeley, 1992-93



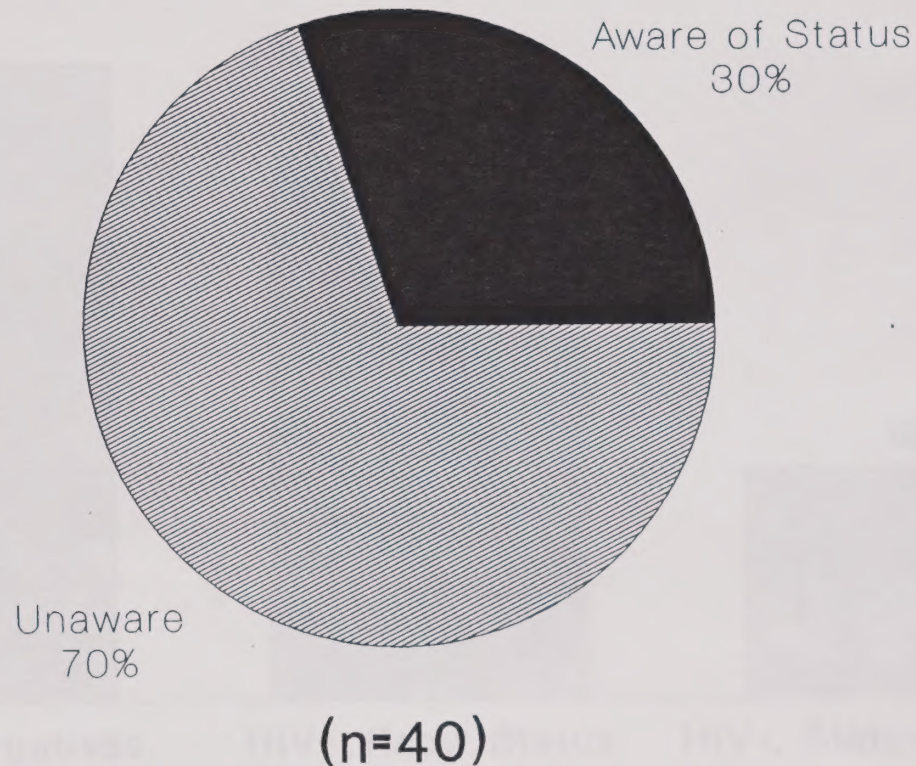
All Participants
(n=425)

Ever Tested
90%



HIV+ Participants
(n=40)

Percentage of HIV-Infected Men Aware of Their Infection at Time of Interview Among Young Men who have Sex with Men



YMS: San Francisco/Berkeley, 1992-93

to serve as a model for the development of a
national system of health care
and to provide a basis for the development of a
national system of health care

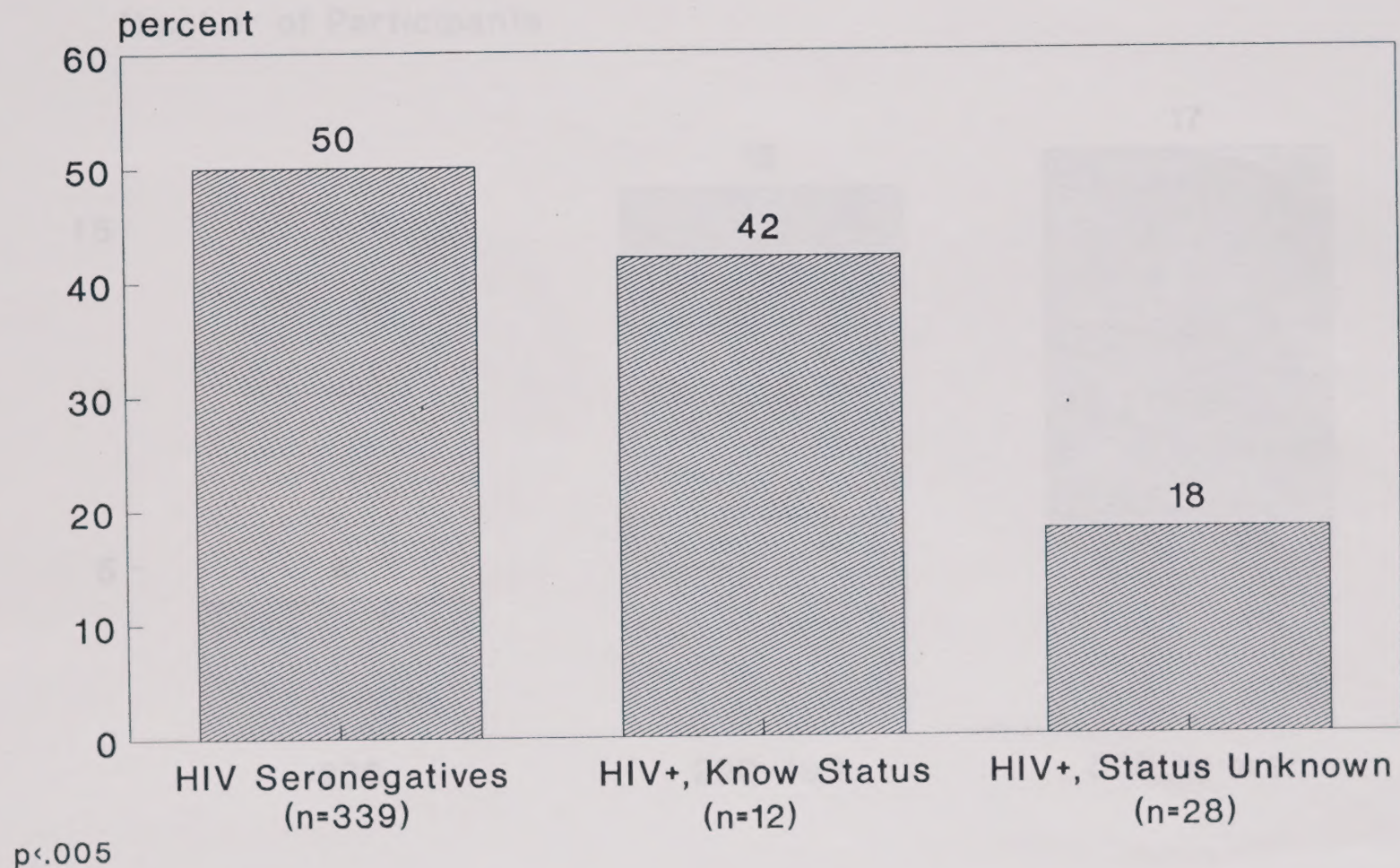
FOR
REVIEW



(10-10)

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DIRECTOR

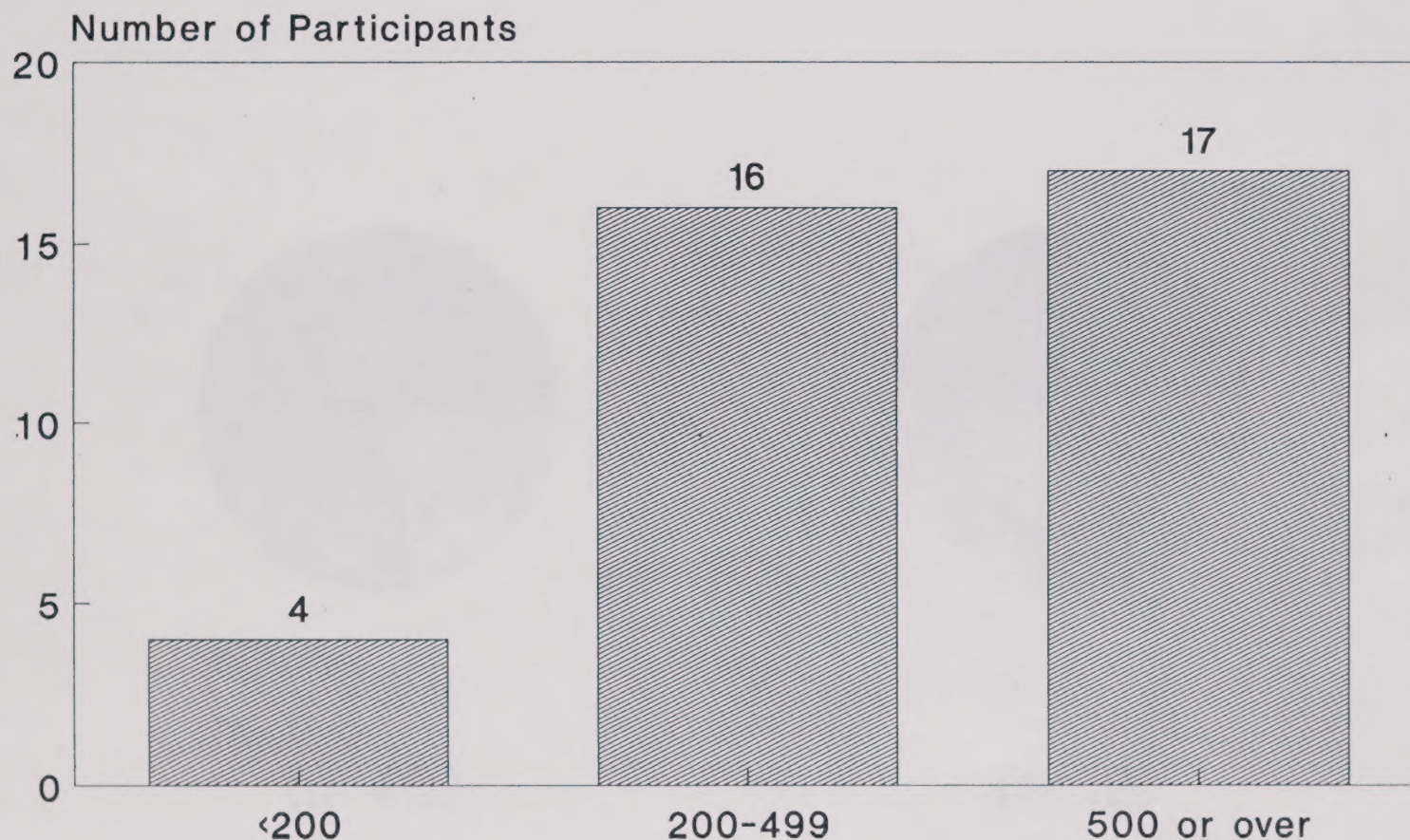
Percentage Returning for Test Results Among Young Men who have Sex with Men YMS: San Francisco/Berkeley, 1992-93





Percentage Returning for Test Results
 among Men who have Sex with Men
 1995-2001, Vancouver, BC, Canada

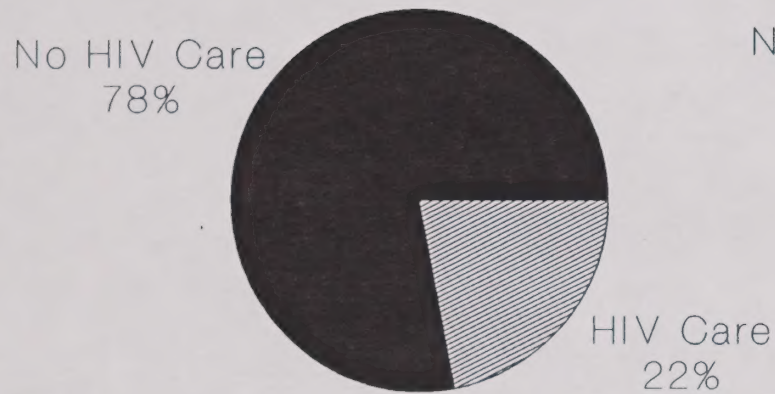
CD4+ Lymphocyte Count Among HIV-Infected Young Men who Have Sex with Men YMS: San Francisco/Berkeley, 1992-93



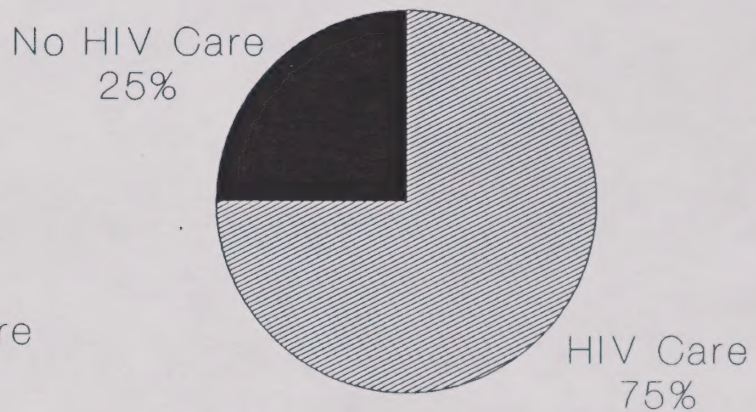


CD4+ Glycoprotein Concentration among HIV-infected
 men with sex with men
 1995-2000

Percentage of HIV-Infected Men in Primary Care YMS: San Francisco/Berkeley, 1992-93



All HIV+
(n=40)



HIV+ Aware of Status
(n=12)



C101745491

(U=15)

(U=40)



percentage of HIV-1-infected
men in primary CSF
82-2007, Yale University School of Medicine